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This book examined for underlining, and corrections entered in Bks 27, 34 and 35.

O. Aug 7, 1917.

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Although measures in this book are recorded in order of brightness, the stars were measured in as irregular order as possible, to obtain independent results. Sept. 11, 1918.

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Tuesday December 21, 1915

Scale m

B Series 50.

10:25 B 45566 C 11 21 +15°

Dc.

	Ac. 1			Diff.	Sc. 1 Dec 7	Diff.
1	B.			.	7.1	-.089
2	30 2.8			408	8.1	-.102
3	37 3.5			397	8.8	-.113
4	32 3.0			471	8.1	-.079
5	45 4.3	4.5	4.50 00	380	8.8 ? x/4	-.050
6	43 4.1	4.5	4.40 L 1	406	9.1	-.064
7	48 4.6	4.9	4.85 0 1	398	9.3	-.047
8	53 5.1	5.1	5.20 1 1	383	9.8	-.077
10	56 5.4	5.6	5.60 0 0	385	10.1	-.065
12	59 5.7	5.9	5.90 0 0	395	n.s.	.
14	63 6.1	6.3	6.30 0 0	367		
15	68 6.6	6.8	6.80 0 0	360		
16	7.1 6.9	7.1	7.10 0 0	360		
17		7.5		352		
20		7.7		369		
23		8.3		350		
24		8.5		390		
25		8.4	8.40 0 0 8.4	417		
26		9.3	9.30 0 0 9.3	360		
27		9.1	9.10 0 0 9.1	404		
28		9.3	9.25 1 0 9.25	414		
29		9.3	9.30 0 0 9.3	427		
30		9.7	9.70 0 0 9.7	427		
31		7.	7.	.		
32		n.s.		.		
33						

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Scale m

B Series 50.

	B 4555 66		21 + 15°	Diffr. Ims.
	g	h		
	sc.1 sc.2	sc.1 sc.2	Diff.	
1	t/r	6.3	.	
2		6.1	0.78	
3		7.2	0.47	
4		7.3	0.61	
5		7.6	0.70	
6		7.6	0.86	
4		8.1	0.73	
8		8.2	0.83	
10		8.5	0.98	
12		9.1	0.75	
14		9.2	0.77	
15	t/r	9.4	1.00	
16		10.0	0.70	
17		4.	.	

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Scale M-

B Series 50.

B 5567 161K 21 29-29.8 Alt +06

	pc.1	pc.2	pc.?		Cw.	Magn.	Diffr Imw. g pc.?	h pc.?	Cw.	Magn	P.C. pc.?
1	B. 54	B.			.	.	tf. 56		.	.	7.5? (Imw. along cut.?) −1.20 6.30?
2	52 59	5.5	5.45	0 1	.372	9.17	tf. 8.5	8.55 10	0.81	9.31	9.7 − 0.60 9.10
3	5.7 66	5.7	5.80	1 1	.367	9.47	8.5?	8.6	0.81	9.36	9.9 − 050 9.40
4	6.4	6.7	6.65	0 1	.360	10.25	tf. 9.1		0.80	9.90	n.s. . .
5		7.1			.361	10.71	tf. 9.8?		0.80	10.60?	
6		7.1			.361	10.71	tf. tf.		.	.	
7		7.3			.364	10.94	t t.		.	.	
8		7.7			.373	11.43					
9		8.10 8.1	8.1	0 0	.385	11.95					
10		8.10 8.1	8.1	0 0	.385	11.95					
11		8.30 8.3	8.3	0 0	.394	12.24					
12		8.70 8.7		0 0	.410	12.80					
13		9.20 9.1	9.3	L 1	.431	13.51					
14		9.55 9.7	9.4	1 2	.446	14.01					
15		10.00 10.0		0 0	.465	14.65					
16											
17											
18											

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Scale M

B Series 50-

B 4556 8 | 185 K | 21 52 - 44.1 | Aft 02

	sc.1	sc.2		Cu.	Magn	Diff'l sc.1	Diff'l sc.2	Cu	Magn	B.C sc.2	B.C Cu.	B.C Magn
1	3.0 (3.2)			4.37	7.57	tp.	6.5	0.60	7.10	8.1	−1.06	7.04
2	4.1 (4.3)	4.6	4.45 L 2	3.92	8.37	tp.	1.1	0.77	8.57	9.2	−0.78	6.42
3	5.6 (5.8)	6.1	5.95 2 1	3.65	9.60	tp.	tp.	.	.	‡	.	.
4	6.3 (6.5)	6.6	6.55 L 0	3.60	10.15	tp.	tp.	.	.	‡	.	.
5	6.9 (7.1)	7.3	7.20 L 1	3.63	10.83	10.00 00 10.0	10.0	0.79	10.79			
6		7.4		3.66	11.16	‡	‡	.				
7		7.8		3.76	11.56							
8		7.9		3.79	11.69							
9		8.4		3.98	12.38							
10		8.4		3.98	12.38							
11		8.6 (8.60 0 0)	8.6	4.07	12.67							
12		8.8 (8.75 0 1)	8.7	4.12	12.87							
13		9.3 (9.30 0 0)	9.3	4.35	13.65							
14		9.4 (9.40 0 0)	9.4	4.39	13.79							
15		10.0 (10.00 0 0)	10.0	4.65	14.65							
16				.								
17												
18												

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Scale M

B Series 50.

B 45569 138 K 22 11-14.9 Alt + 08

		sc.1	sc.2			Cw.	Magn	Diff. Inv. sc.1	sc.2	Cw.		C.C. sc.2	Cw.	Magn
		3.2												
01		3.0	B.			4.37	7.57	t.p.	t.p.	.		8.3	-.103	7.27
		4.9												
02		4.7	5.0	4.95	L 0	3.80	8.75	t.p.	8.1	0.80	890	9.1	-0.60	9.10
		4.7												
03		4.5	4.5	4.60	1 L	3.89	8.49	t.p.	t.p.	.	.	9.1	-0.60	9.10
		5.7												
04		5.5	5.6	5.65	1 0	3.70	9.35	t.p.	t.p.	.	.	10.0	-0.44	9.56
		5.8												
05		5.6	5.5	5.65	2 L	3.70	9.35	t.p.	t.p.	.	.	10.0	-0.44	9.56
		6.7												
06		6.5	6.6	6.65	1 0	3.60	10.25	t.p.	t.p.	.	.	n.s.	.	.
		6.8						9.75 L 0						
04		6.6	6.8	6.80	0 0	3.60	10.40	9.7	9.8	0.80	1055			
								10.00 0 0						
08			7.3			3.64	10.94	10.0	10.0	0.79	10.79			
09			7.7			3.73	11.43	n.s.	n.s.	.	.			
010			7.8			3.76	11.56							
011			8.1	8.20	8.15 L 0		3.89	12.04						
012			8.6	8.6	8.60 0 0		4.06	12.66						
013			8.8	9.1	8.95 2 1		4.20	13.15						
014			9.2	9.1	9.15 0 L		4.30	13.45						
015			9.8	9.7	9.75 0 L		4.55	14.30						

Diff. Inv. very poor.

This sequence not the one originally selected on MC plate. For re-measures with original sequence see O 24:196

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Scale M B Series 50

B4557o 162 K 22 25–29.5 Alt +06

Diffr. Im. P.C.

	sc 1	sc 2	scr	Cu.	Magn	sc 2	sc 2		sc 2
1	4.2 4.0	B		4.00	8.20	t.p.	t.p.	.	9.1 – 0.82 8.28
2	5.0 4.8	4.9	495 0 1	3.80	8.75	t.p.	t.p.	.	9.4 – 0.70 8.70
3	5.9 5.7	5.8	585 1 0	3.66	9.51	t.p.	t.p.	.	4. . .
4	6.1 5.9	6.1	610 0 0	3.64	9.74	8.8?	t.p.	082 9.62?	4. . .
5	6.7 6.5	6.8	675 L 0	3.60	10.35	t.p.	t.p.	.	n.s. . .
6		7.3		3.64	10.94	7	7	.	
7		7.8		3.76	11.56				
8		7.7		3.73	11.43				
9		7.8		3.76	11.56				
10		8.1	8.1 810 0 0	3.85	11.95				
11		8.21	8.1 815 0 1	3.88	12.03				
12		8.6	8.1 865 0 1	4.08	12.73				
13		8.9	8.8 885 1 0	4.15	13.03				
14		9.4	9.4 940 0 0	4.39	13.79				
15		10.0	10.0 10 000	4.65	14.65				

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Scale M

B Series 50.

B 4557 | E 9 | 22 40-45° | Alt +02

		sc.1	sc.2		Cw.	Magn	P.C. sc.1	sc.2	Cw.	Magn
	1	.			.	.	t.p.		.	.
too from	2	.			.	.	8.3		-.102	7.28
Out of focus	3	.			.	.	8.1		-.093	7.77
	4	3.8 3.6			4.12	7.92	8.6		-.095	7.65
	5	.			.	.	t.p.		.	.
	6	4.2 4.0			4.00	8.20	8.8		-.090	7.90
	7	4.6 4.4	4.6	460 0 0	3.88	8.48	9.1		-.082	8.28
	8	4.9 4.7	4.7	480 1 1	3.82	8.62	9.2		-.078	8.42
	9	5.3 5.1	5.1	520 1 1	3.76	8.96	9.8		-.055	9.25
	10	5.3 5.1	5.3	530 0 0	3.74	9.04	9.8		-.055	9.25
	11	5.3 5.1	5.1	520 1 1	3.76	8.96	½		.	.
	12	5.8 5.6	5.6	570 1 1	3.69	9.39	10.0?		-.044	9.56?
	13	5.8 5.6	5.7	575 0 1	3.68	9.43	½		.	.
	14	6.1 5.9	5.8	595 0 2	3.66	9.61	n.s.		.	.
	15	5.8 5.6	5.7	575 0 1	3.68	9.43	½		.	.
	16	6.0 5.8	6.1	605 0 1	3.65	9.70				
	17	7.1 6.9	6.9	700 1 1	3.60	10.60				
	18	6.7 6.5	6.7	670 0 0	3.60	10.30				
	19	6.9 6.7	6.9	690 0 0	3.60	10.50				
	20		7.2		3.63	10.83				
	21		7.5		3.69	11.19				
	22		7.5		3.69	11.19				
	23		7.8		3.76	11.56				
	24		8.0		3.83	11.83				
	25		8.0		3.83	11.83				
	26		8.1		3.85	11.95				

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Scale m

B Series 50.

B 45571 Eq cout

	xc.	xc.		Cw.	Magn
27	8.3			3.94	12.24
28	8.4			3.98	12.38
29	8.6	8.6	8.60 0 0	4.07	12.67
30	8.7	8.7	8.70 0 0	4.10	12.80
31	9.1	8.8	8.95 1 2	4.20	13.15
32	9.21	9.1	9.15 0 1	4.30	13.45
33	9.2	9.2	9.20 0 0	4.31	13.51
34	9.4	9.5	9.45 0 1	4.40	13.85
35	9.8	9.5	9.65 2 1	4.49	14.14
36	9.9	9.9	9.90 0 0	4.60	14.50
37	n.s.	n.s.	.	.	.
38	n.s.		.	.	.

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B 4557 | 1 Eq cont Differ. Imm.

h

g

	RA 1	RA 2	R.A. 1	R.A. 2	Cm.	Magn
* 1	t.p.		t.p.			
2			t.p.			
3			t.p.			
4			6.8		0.65	7.45
5	t.p.		t.p.		.	.
6			7.4		0.74	8.14
7			7.7		0.77	8.47
8	t.p.		t.p.		.	.
9			8.2		0.80	9.00
10			t.p.		.	.
11			8.1		0.80	8.90
12	t.p.		8.6		0.84	9.41
13			8.4		0.81	9.21
14			9.1		0.80	9.90
15			8.6		0.81	9.41
16			t.p.		.	.
17			9.5		0.80	10.30
18			t.p.		.	.
19			~~9.4~~ 9.3		as;	,
20						
21						
22						

* "g" images much less elongated to compare with scale.

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Salem - B Series 50 -

B 4557 2 C 12 23 + 15

						B.C.	
	sc 1	sc 2		Diff	sc 1 sc 2		Diff
1	B.			.	11		-1.10
2	B			.	t.p.		.
3	B			.	83 v.f.		-102
4	def.			.	8.4		-084
5	t.p.			.	8.1		-086
6	4.7 4.5			3.52	9.1		-088
7	t.p.			.	9.1		-067
8	t.p.			.	9.3		-070
9	t.p.	5.4		3.61	9.7		-069
10	5.3 5.1	5.4	5.34	0 1 3.65	9.8		-081
11	5.8 5.6	5.6	5.70	1 1 3.61	99		-059
12	5.8 5.6	5.1	5.75	0 1 3.86	t.		.
13	6.3 6.1	6.3	6.30	0 0 3.50			
14	6.4 6.2	6.4	6.40	0 0 3.51			
15	t.p.	5.9		3.95	n.s.		
16	6.8 6.6	6.8	6.80	0 0 3.58			
17		7.1		3.55			
17a		7.1		3.98			
18		7.6		3.70			
19		7.8		3.67			
19a		7.8		4.02			
20		8.1		3.80			
21		8.2		4.03			
22		8.8		4.11			
23		8.1		4.31			
24		9.2		4.24			

12:15
1:10

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Salem

B Series 50.

B45572 C12

	sec z	sec z	Diff.
	9.10 00		
25	9.1	9.1	4.38
	9.25 10		
26	9.3	9.2	4.41
	9.40 00		
27	9.4	9.4	461
	9.75 01		
28	9.8	9.7	406
	n.s.		
29	~~9.2~~	w.s. n.s.	
30			

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Tuesday December 21, 1915

Salem

B Series 50.

B 4557 21 | C 12 | 2 3 +15°

	g sc.1	g sc.2	h sc.1	h sc.2	Diff.
1	t.p.		6.3 6.1		0.30
2	t.p.		t.p.		,
3	t.p.		t.p. 6.7		,
4	t.p.		6.5		086
5		t.p.		7.3	0.54
6		t.p.		7.4	0.82
7		t.p.		t.p.	,
8		t.p.		t.p.	,
9	t.p.		8.1		0.91
10		t.p.	8.1		0.89
11		t.p.		8.7	0.61
12		t.p.		t.p.	,
13			9.1		0.70
14			t.p.		,
15		t.p.		t.p.	,
16			9.8		0.58
17			9.8		0.85
17a			∃?		,
18			10.0		130
19			n.s.		,

2–

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Wednesday December 22, 1915

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Scale R — Sc. measures of ~~Sec~~ plates - Southern regions.

1 — am 5592 — f'

Seq. at 17h 20-45° (E1)

Secondary Eff.

	scB	scC.	Cu	magn	sc.B	scC.
(17 20-45° E1) 1	3.9 4.2	B.	3.13	6.93	8.3	
2	4.3 4.1	4.45 +2 4.6	2.95	7.40	8.6	
3	4.4 4.8	4.40 00 4.4	2.96	7.36	8.6	
4	4.7 v.f. 5.1	f.	2.87	7.57	9.1	
5	5.3 5.1	5.35 +0 5.4	2.68	8.03x	9.3	
6	5.6 6.0	5.55 -1 5.5	2.63	8.18	9.5	
* 7	3.9 4.3	4.05 +2 4.2	3.05	7.10	8.1	
8	5.6 6.2	5.95 -1 6.1	2.53	8.48	9.9	
9	5.6 6.0	5.60 00 5.6	2.63	8.23	Sufr.	
10	6.7 7.1	6.55 +1 6.4	2.30	8.86	f.	
11	7.05 10 7.1	6.78 -2 -1 6.5 6.5	2.23	9.01	n.s.	
12	6.5 6.9	6.35 +2 6.2	2.37	8.72		
13	6.7 7.1	6.70 00 6.7	2.26	8.96		
14	7.1 7.5	7.15 -1 0 7.2	2.10	9.25		
15	7.1 7.5	7.10 00 7.1	2.12	9.22		
16	6.9 7.3	6.90 00 6.9	2.19	9.09		
17	7.2 7.6	7.25 -1 7.3	2.07	9.32		
18	7.7 8.1	7.65 -1 0 7.6	1.95	9.60		
19	7.8 8.2	7.65 -2 -1 7.5	1.95	9.60		
20	8.1 8.5	8.10 00 8.1	1.80	9.90		
21	9.2 8.6	8.15 -1 -2 8.1	1.78	9.93		
22	8.7 9.1	8.40 +3 -3 8.1	1.70	10.10		
23	8.7 9.1	8.75 +0 8.8	1.58	10.33		
24		Sc. 8.70 00 8.1 8.1	1.60	10.30		
25		8.95 +1 8.8 9.1	1.52	10.47		
26		9.60 -1 -1 9.7 9.5	1.32	10.92		

* Wrong star marked for star 7. marked wrong on ref. plate 3 corrected on both plates.

Seq. at 17h 20-45 has a Secondary Eff.

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1915phae.proj.10720

Wednesday December 22, 1915

Scale N

AM 5592 Cont. 81

	scC.	scC.	Cu	Magn
Ex cont. →				
27	9.9 (9.95 ±2)	9.6	1.26	11.01
28	10.0 (10.00 ±0)	10.0	1.19	11.19
29	‡			
30	‡			

Shut no 29

	scB.	scC.	Diff	Cu	Magn
Seq C9 = 17 + 15°	4.4 (4.0 4.15 ±1)	4.3	3.03	3.02	7.17
2	4.6 (4.2 4.40 ±2)	4.6	2.83	2.95	7.35
3	4.4 (4.0 4.15 ±1)	4.3	2.89	3.02	7.17
4	5.3 (4.9 5.00 ±1)	5.1	2.82	2.77	7.77
5	5.6 (5.2 5.30 ±1)	5.4	2.76	2.69	7.99
6	6.4 (6.0 5.75 ±0 5.88 ±2 ±3)	5.8	2.59	2.68 (2.59)	8.47
7	7.5 (7.1 7.10 ±0)	7.1	1.94	2.13	9.23
8	7.6 (7.2 7.30 ±1)	7.4	2.23	2.05	9.35
8a	7.8 (7.4 7.40 ±0)	7.4	2.26		
9	8.5 (8.20 ±0 8.39.1 8.15 ±0 8.18 ±0 ±2)	8.2	1.91	1.77	9.95
10	8.8? (8.85 ±1)	8.9	1.81	1.58	10.43
11	9.1? (9.10 ±0 v.f.)	9.1	1.40	1.46	10.56
12	9.2 (9.20 ±0 9.40 ±4 v.f.)	9.2	1.37	1.44	10.64
13	9.5	9.3	1.32	1.37	10.77
14 (almost sup. on another star)	9.6 (9.65 ±1)	9.7	1.14	1.30	10.95
15	9.7 (9.80 ±1)	9.9	1.33	1.25	11.05
16	n.s.	n.s.			
17					
18					
19					
20					
21					
22					
23	Images - sequence 17h ± 15° - very poor - much elongated				

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Tuesday December 28, 1915.

Scale M

B Series 65.

12:10 B 45759 C 12

		sc.1	sc.2		Diff.	P.C. sc.1	sc.2	
	1	B.			.	7.8		−1.20
	2	3.4			3.39	Elong.		.
	3	3.1			3.38	8.4		−1.12
	4	3.8			3.56	8.6 (w.s)		−1.04
	5	4.1	4.0	4.15 1 2	3.69	8.8		−0.96
	6	4.1	4.9	4.90 0 0	3.32	9.3		−1.08
edge	7	t.f.	t.f.	.	.	9.1		−0.67
	8	B.	t.f.	.	.	9.21		−0.60
	9	5.6	5.1	5.75 0 1	3.26	10.0		−0.99
	10	5.5	5.6	5.65 1 0	3.34	9.9		−0.91
	11	5.8	5.9	5.95 0 1	3.36	f.		.
	12	5.8	6.1	6.05 0 1	3.56	f.		.
	13	6.1	6.3	6.30 0 0	3.50	n.s.		.
	14	6.2	6.5	6.45 0 1	3.46			
	15	6.2	6.5	6.45 0 1	3.40			
	16	6.6	6.9	6.85 0 1	3.53			
	17		7.4		3.25			
	17a		7.6		3.48			
	18		7.7		3.60			
	19		7.9? v.f.		3.57			
	19a		7.9		3.92			
	20		8.3		3.60			
	21		8.5		3.73			
	21a		8.6		4.05			
	22		8.8		4.11			
	23		8.8	8.85 0 1 8.9	4.16			

Plate badly scratched.

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Tuesday December 28, 1915

Scale m

B 45759 C 12 cont.

~~23~~	~~20.2~~	~~20.2~~			Diff.
24	9.1	9.1	9.10	00	~~4.34~~
25	9.2	9.1	9.15	01	4.33
26	9.2	9.2	9.20	00	4.46
27	9.6	9.9	9.75	21	4.26
28	9.5	9.7	9.60	11	4.21
29	〃	〃	〃		〃
30	〃		〃		〃
31	〃		〃		〃

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Tuesday December 28, 1915

Scale m

B Series 65

	B 45759 *g		B 45759 h		Diffr. Ians.	
	SC.1	SC.2	SC.1	SC.2		
1	t.p.		6.1 5.9		0.50	
2				t.p.		
3			6.8 6.6		0.48	
4				7.2	0.36	
5				7.3	0.54	
6				7.6	0.62	
Out of focus. 7						
8						
9				8.4	0.61	
10				8.5	0.49	
11				8.5	0.81	
12				8.9	0.71	
13				9.1	0.70	
14				8.8 t.p.	1.11	
15				8.8	1.05	
16				9.8	0.58	
17				9.9	0.75	
17a				10.0	1.08	
18	t.p.					
19				n.s.		
19a						

*All "g" diffraction images are lost pos - all elongated -

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Scale M

B Series 65 –

B 45760 E9 22 40 – 45.0° Alt +01

P.C.

		sc.1	sc.2		C.w.	Magn	sc.1	sc.2	C.w.	Magn	
	1	B			.	.	t.p.	.	.	.	
	2	3.6 3.4			3.70	7.30	8.1	– 1.18 1.86	7.94	6.92	
Edge	3	t.p.			.	.	8.6	– 1.12 ~~0.95~~	7.65	7.48	
	4	4.0 3.8			3.66	7.66	8.1	– 1.07 ~~0.94~~	7.76	7.63	
	5	B.			.	.	t.p.	.	.	.	
	6	4.0 3.8	B.		3.66	7.66	8.1	– 1.07 ~~0.94~~	7.76	7.63	
	7	4.7 4.5	4.1	4.70 0 0	3.61	8.31	9.3	– 0.98	8.55	8.32	
	8	5.0 4.8	5.0	5.00 0 0	3.60	8.60	9.3	– 0.98	8.55	8.32	
	9	5.7 5.5	5.6	5.65 1 0	3.59	9.24	9.5	– 0.93 ~~0.88~~	8.82	8.57	
	10	5.7 5.5	5.5	5.60 1 1	3.60	9.20	9.8	– 0.84 ~~0.88~~	9.25	8.96	
	11	5.3 5.1	5.5	5.40 1 1	3.60	9.00	9.1	– 0.87 ~~0.00~~	9.10	8.83	
	12	5.9 5.1	5.8	5.85 1 0	3.59	9.44	10.0	– 0.79 ~~0.45~~	9.55	9.21	
	13	5.9 5.1	5.9	5.90 0 0	3.59	9.49	9.9	– 0.82 ~~0.50~~	9.40	9.08	
	14	6.3 6.1	6.2	6.25 1 0	3.59	9.84	t.	.	.	.	
	15	6.0 5.8	6.1	6.05 0 1	3.59	~~9.64~~	10.0	– 0.79 ~~0.45~~	9.55	9.21	
	16	6.8 6.6	6.6	6.70 1 1	3.60	10.30					
	17		7.2		3.62	10.82					
	18	7.1 6.9	7.2	7.15 1 0	3.61	10.76					
	19		7.1		3.61	10.71					
	20		7.5		3.66	11.16					
	21		7.1		3.72	11.42					
	22		7.1		3.72	11.42					
	23		7.9		3.76	11.66					
	24		8.2 0 0 8.2	8.2	3.86	12.06					
	25		8.2 1 1 8.1	8.3	3.86	12.06					
	26		8.3		3.90	12.20					

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Tuesday December 28. 1915

Scale M

B Series 65

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B 45760 cont

	AC 7	AC 7		Cw.	Magn
27	8.3	8.3	8.30	0 0 3.90	12.20
28	8.6	8.6	8.60	0 0 4.04	12.64
29	8.7	8.7	8.70	0 0 4.07	12.77
30	8.7	8.7	8.70	0 0 4.07	12.77
31	9.1	8.9	9.00	1 ± 4.20	13.20
32	9.1	9.2	9.15	± 0 4.28	13.43
33	8.8	9.2	9.00	± 2 4.20	13.20
34	9.7	9.6	9.65	1 0 4.54	14.19
35	9.9	9.7	9.80	1 ± 4.64	14.44
36	9.9	9.7	9.80	1 ± 4.64	14.44
37	10.0	9.9	9.95	0 ± 4.73	14.68
38	↓	↓	.	.	.

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Scale 7m

B. Series 6.5

B 45760 Diffr. Inn.

	g	h				
	sc.1 sc.2	sc.1 sc.2			Cu	Magn
1	t.p.	t.p.				
2		t.p.				
3		t.p.				
4			7.3	-1.24	0.56	7.86
5			.	.	.	.
6			7.2	-1.22	0.57	7.97
7			t.p.	.	.	.
8			t.p.	.	.	.
9			8.3	-1.16	0.64	8.94
10			t.p.	.	.	.
11			8.3	-1.16	0.64	8.94
12			8.6	-1.12	0.68	9.28
13			8.4	-1.14	0.65	9.05
14			8.8	-1.05	0.70	9.50
15			8.6	-1.12	0.68	9.28
16			9.1	-0.98	0.74	9.84
17			9.7?	-0.87	0.81	10.51?
18			9.5	-0.93	0.78	10.28
19			9.5	-0.93	0.78	10.28
20	t.p.		10.0?	-0.79	0.86	10.86?
21						
22						

All "g" images are left from.

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Scale M

B Series 65

B 4574 61 D 12 23–15° Alt +07

P.C.

	sc.1	sc.2			Cw.	Magn	sc.1	sc.2			Cw.	Magn
1	3.5				3.69	7.39	8.1?	poor			−1.06	7.64?
2	t.p.				.	.	t.p.				.	.
3	t.p.				.	.	9.1?				−1.02	8.08?
4	3.9 3.1				3.66	7.56	9.2				−1.00	8.00
5	t.p.				.	.	t.p.				.	.
6	4.4 4.2				3.63	8.03	9.3				−0.98	8.32
7	4.9 4.1				3.61	8.51	9.5?				−0.93	8.57?
8	4.9 4.1				3.61	8.51	9.8				−0.85	8.95
9	5.4 5.2	5.1	5.25	2 1	3.60	8.85	10.0				−0.79	9.21
10	5.5 5.3	5.3	5.40	1 1	3.60	9.00	⅓?				.	.
11	5.3 5.1	5.3	5.30	0 0	3.60	8.90	⅓?				.	.
12	5.4 5.2	5.4	5.40	0 0	3.60	9.00						
13	5.7 5.5	5.1	5.70	0 0	3.59	9.29						
14	6.1 5.9	6.1	6.10	0 0	3.59	9.29						
15	6.3 poor 6.1	6.2	6.25	1 0	3.59	9.84						
16	6.3 6.1	6.4	6.35	1 0	3.59	9.94						
16a	t.p.											
17	7.2				3.62	10.82						
18	7.5				3.66	11.16						
19	7.5				3.66	11.16						
20	t.p.				.	.						
21	t.p.				.	.						
22	t.p.				.	.						
23	8.3				3.90	12.20						
24	8.3				3.90	12.20						
25	t.p.				.	.						
26	t.p.				.	.						

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Scale m

B Series 65

Continued.

B 45761 cont.

	sc?	sc?		Cw.	Magn
27	9.1	9.2	9.15 1 0	4.28	13.43
27a	8.8	8.8	8.80 0 0	4.10	12.90
28	t.fr-9.1			4.24	13.34
29	9.2	9.3	9.25 0 1	4.32	13.57
30	9.5	9.5	9.50 0 0	4.45	13.95
31	9.7	9.7	9.70 0 0	4.56	14.26
32	9.7	t.fr.		4.56	14.26
33	±	±		,	,
34	n.s?	10.0?	(very ft.)	4.75	14.75?
35	n.s.	n.s.		,	,

Star 27. Image unusually sharp. Inspection of plate shows that it is much brighter than Star 28, though measured faintest. Reject for discordance.

H. S. L. Feb. 21, 1919.

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Tuesday December 28, 1915

Scale M

B Series 65.

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	B 4576 1		D 121		Diffr. Inv.
	g	h			
	sc. 1 sc. 2	sc. 1 sc. 2			
1		t.p.			
2		t.p.			
3		t.p.			
4	t.p.	t.p.			
5		t.p.			
6		t.p.			
7		t.p.			
8		t.p.			
9		8.6	0.68		9.28
10		t.p.	"		"
11	t.p.	8.7	0.69		9.39
12		8.7	0.69		9.39
13		t.p.	"		"
14		9.3	0.76		10.06
15		9.4	0.78		10.18
16	9.7	9.70 00	9.7	0.81	10.51
17		7	"		"
18		n.s.	"		"
19					
20					
21					
22					
23					

"g" images very poor—large and hazy—not comp. with Scale.
"h" " poor. also.

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Scale m. B Series 65

B 45 16 21 139 K 23 15-14 7 Alt +07

Diffr. Inn. P.C.

	sc.1	sc.2		Cw.	Magn	g Sc2	h Sc2			sc.2
1	3.7 3.5	B.		3.69	7.39	t.p.	7.1	0.58	7.68	8.7 − 1.10 7.60
2	4.8 4.6	4.7	4.75 0 1	3.61	8.36	t.p.	t.p.		.	9.9 −0.82 9.08
3	5.2 5.0	5.21	5.20 0 0	3.60	8.80	t.p.	t.p.		.	7. . .
4	6.6 6.3	6.5	6.50 0 0	3.59	10.09	t.p.	9.9	0.85	10.75	t.p. . .
5		1.1		3.61	10.71	10.0?	10.0?	0.87	10.87?	
6		1.1		3.61	10.71					
7		1.21		3.62	10.82					
8		1.7		3.73	11.43					
9		1.9	1.9	7.90 0 0	3.76	11.66				
10		8.3	8.4	8.35 1 0	3.92	12.27				
11		8.7	8.8	8.75 1 0	4.09	12.84				
12		9.1	9.2	9.15 1 0	4.28	13.43				
13		9.21	9.3	9.25 0 1	4.32	13.57				
14		9.7	9.7	9.70 0 0	4.46	14.16				
15		9.9	9.7	9.80 1 1	4.53	14.33				
16		n.s.	n.s.	.		.				

Images poor.

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Tuesday December 28, 1915

Copied 45! 192

Scale m B Series 65 Alt Cor .00

B 4571 63 V Phoenicis 23 27 - 46.5 :

	sc.1	sc.2			Cw.	Magn	Diff. Im. All Ob from.	P.C. sc.2	Cw.
a	t.f.	4.9			361	8.51		9.5 - 094	8.56
b	5.3 5.1	5.3	5.30	0 0	360	8.90		9.9 - 0.82	9.08
c	5.6 5.4	5.6	5.60	0 0	360	9.20		9.9 - 0.82	9.08
d	6.3 6.1	6.1	6.20	1 1	359	9.79		? . ,	
d'	6.3 6.1	6.4	6.35	1 0	359	9.94		? . ,	
d²	7.1 6.9	7.2	7.15	1 0	362	10.77		m.s. , ,	
e	6.0 5.8	6.1	6.06	0 1	359	9.64		10.0 - 079	9.21
f		t.f.	7.8		374	11.54			
f'		8.2	8.4	8.30	1 1	390	12.20		
g		7.5	7.5	7.50	0 0	366	11.16		
h		8.5	8.6	8.55	1 0	4.01 ~~3.67~~	12.56		
k		8.6	8.7	8.65	0 1	4.05 ~~3.70~~	12.70		
l		9.7	9.8	9.75	1 0	4.60	14.35		
m		9.2	9.2	9.20	0 0	4.41	13.61		
Var	6.4 6.2				359		9.99		

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Tuesday December 28, 1915

Scale m B Series 65

	*B 4576 4			C 12	23 +15
				Diff	G.C.
	pc.1	pc.2			pc.1 sc.2 Diff
1	B.			.	7.1 – 1.10
2	t.p.			.	8.1 – 1.11
3	t.p.			.	8.4 – 1.12
4	t.p.			.	8.6 – 1.04
5	t.p.			.	9.2 – 1.36
6	t.p.			.	9.2 – 0.98
7	t.p.			.	9.3 – 0.87
8	t.p. B			.	t.p. .
9	t.p.	5.2		3.81	9.1? – 0.69
10	4.9 4.7	5.2	5.05	1 2 3.94	9.9 – 0.91
11	t.p.	5.3?	.		4.01? 9.9 – 0.59
12	5.7 5.5	5.1	5.70	0 0 3.91	t. .
13	5.9 5.1	6.1	6.00	1 1 3.80	
14	6.4 6.2	6.1	6.25	2 1 3.66	
15	5.9 5.1	5.8	5.85	1 0 4.00	n.s.
16	6.7 6.5	6.7	6.70	0 0 3.68	
17		7.1		3.55	
17a		7.2?		3.88?	
18		7.6		3.70	
19		t.p.		.	
19a		8.1		3.72	
20		7.9		4.00	
21		8.2		4.03	
21a		8.5		4.15	
22		8.8		4.11	
23		8.7		4.31	

* Images are very poor difficulty in comb with scale.

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Tuesday December 28, 1915

Salem

B Series 65

B 45764 C12 23+15-

	sec 2	sec 2		Diff.
24	9.1			4.34
25	9.1	9.2	9.15	4.33
26	9.2	9.3	9.25	4.41
27	9.3	9.3	9.30	4.31
28	9.8	9.8	9.80	4.66
29	〃	〃	〃	〃
30	n.s	n.s.	〃	〃
31				

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1915phae.proj.10720

Tuesday December 28, 1915–

Scalem

B Lewis 65

	B 45764		C 12	Diffs. Imm.
	g	h		
	sc.1 sc.2	sc.1 sc.2	Diff	
1	5.5 5.3	5.6 5.4	1.05	
2	6.0 5.8	t.f.	0.99	
3	.	.		
4	.	.		
trofom 5	.	.		
6				
" 7	.	.		
" 8	.	.		
" 9	.	8.3?	0.71	
10	.	.		
11	.	.		
12	.	.		
" 13	.	.		
14	t.f.	t.f.		
15	t.f.	9.1	0.75	
16	9.8? 9.60 = 2	9.4	0.88	
17	f	f		
17a	n.s.	n.s.		

2:32 − 15m = 2:17

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Wednesday December 29, 1915

Scale 1:10

B Peris 65

B 45764 C 12

	P.O. sec 1	P.O. sec 2
1	B.	7.6
2	B.	7.9
3	t.p.	8.3
4	t.p.	8.5
5	9.9	8.8
6	t.p.	9.1
7	t.p.	9.2
8	t.p.	9.1
9	t.p.	n.s.
10	t.p.	9.9?
11	t.p.	9.8
12	5.5	7.
13	5.7	7.
14	5.9	n.s.
15	5.1	n.s.
16	6.3	
17	6.6	
17a	7.1	
18	7.5	
19		
19a	7.9	
20	7.9	
21	8.2	
21a	8.4	
22	8.7	
23	8.8	
24	9.1	

Interrupted

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1915phae.proj.10720

25 9.1
26 9.21
27
28
29
30

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Thursday, December 30, 1915

Scale m

B series 60.

10:50 B45695 C12 23 +15°

	pc.1				Diff	pc.1	pc.2	Diff.
1	.			.		8.1		−1.50
2	.			.		8.3		−1.31
3	.			.		8.9		−1.62
4	.			.		9.1		−1.54
5	3.9 9.1	B.		3.94	7.84	9.3		−1.46
6	4.9 4.7 5.0		495 L 0	3.27	8.22	9.5 (w.s.)		−1.28
7	Out of focus					9.6		−1.17
8						9.1		−1.10
9	5.8 5.6 5.6		5.70 1 1	3.31	9.01	n.s.		.
10	5.7 5.5 5.6		5.65 1 0	3.34	8.99	n.s.		.
11	6.1 5.9 5.9		6.00 1 1	3.31	9.31			
12	6.1 5.9 6.3		6.20 L 1	3.41	9.61			
13	6.6 6.4 6.8		6.70 L 1	3.10	9.80			
14	6.7 6.5 6.9		6.70 0 0	3.28	9.91			
15	6.8 6.6 6.6		6.70 1 1	3.15	9.85			
16	7.1 6.9 7.1		7.10 0 0	3.28	10.38			
17	7.6			3.05	10.65			
17a	7.8			3.28	11.98			
18	8.1			3.20	11.30			
19	8.2			3.27	11.47			
19a	8.3 8.3		8.30 0 0	3.52	11.82			
20	8.4 8.4		8.40 0 0	3.50	11.90			
21	8.7 8.1		8.70 0 0	3.53	12.23			
21a	8.8 8.9		8.85 0 1	3.80	12.65			
22	9.4 9.4		9.40 0 0	3.51	12.91			
23	9.2 9.4		9.30 L 1	3.71	13.01			

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Thursday December 30, 1915

Scalum

B Series 60.

	B 4569 5				C 12 cont.	
	sc 1	sc 2				
24	9.6	9.5	9.55	0 1	3.89	13.44
25	9.7	9.1	9.70	0 0	3.78	13.48
26	〃	〃	〃	〃	〃	〃
27	〃	〃	〃	〃	〃	〃
28	m.s.	〃	〃	〃	〃	〃
29						
30						

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Scale m

B Series 60.

B 45695 C 12 Diffr. Inn.

	g		h			
	pc.1	pc.2	pc.1	pc.2	~~Co~~ Diff.	~~Magn~~
1			6.1		0.50	~~660~~
2	t.p.		t.p.		.	
3	t.p.		7.1		0.18	
4			7.4		0.16	
5			t.p.		.	
6	t.p.		7.9		0.32	
7			t.p.		.	
8			t.p.		.	
9	t.p.		8.6		0.41	
10			8.6 t.p.		0.39	
11			Surf?		.	
12			9.2		0.41	
13			9.8		0.00	
14			9.9		0.00	
15	t.p.		9.8		0.05	
16			t.		.	
17	m.s.		m.s.		.	
17a						
18						
19						
19a						

"g" images very much elongated. Use from for comparison with scale.

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Scale m. B Series 60.

B 45 696 140 K 0 2 - 296 Alt + 06

	sc.1			Cm.	Magn	g sc.2	h sc.2	Cm.	Magn	D.C. sc.2	Cm.	Magn
1	B.			.	.		t.p.	.		7.6	- 1.49	6.11
2	B.			.	.	t.p.	t.p.	.		8.6	- 1.47	7.13
3	3.4 3.2? B.			.	.		1.1	0.21	7.31	8.1	- 1.46	7.24
4	5.7 5.5	5.6	5.65	1 0	3.49	9.14	t.p.	9.4	0.20	9.60	n.s.	.	.
5	6.3 6.1	6.2	6.25	1 0	3.40	9.65		10.0?	0.02	10.02?			
6	6.8 6.6	6.8	6.80	0 0	3.36	10.16		n.s.	.	.			
7		7.5			3.36	10.86							
8		7.6			3.37	10.97							
9		7.7			3.38	11.08							
10		8.1	8.0	8.05	1 0	3.39	11.44						
11		8.5	8.5	8.50	0 0	3.44	11.94						
12		8.6	8.6	8.60	0 0	3.47	12.07						
13		8.7	8.6	8.65	1 0	3.48	12.13						
14		8.9	8.9	8.90	0 0	3.53	12.43						
15		9.5	9.4	9.45	1 0	3.70	13.15						

g images very poor.

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Seaborn

B Series 60.

B 45697 116 K 0 14-14.8 Alt +08

	sc.1	sc.2		Cw.	Magn	q	Diff. Inn. sc.2			P.C. sc.2
	4.9									
1	4.7	4.9	490 00	3.63	8.53	+/-	+/-	.		9.1 – 1.35 8.35
	5.3									
2	5.1	5.5	540 ⊥ 1	3.52	8.92		8.6	0.31	8.91	? . .
	6.0						9.5			
3	5.8	6.1	605 0 1	3.42	9.47		8.6 w.s.	0.16	9.66	n.s. . .
	6.3									
4	6.1	6.1	620 1 ⊥	3.40	9.60		9.1?	0.11	9.81?	
		7.55 ⊥ 0								
5		7.5	7.6	3.37	10.92		n.s.	.	.	
		8.15 0 1								
6		8.2	8.1	3.40	11.55					
		8.75 ⊥ 0								
7		8.1	8.8	3.49	12.24					
		9.20 0 0								
8		9.2	9.2	3.61	12.81					
		9.80 0 0								
9		9.8	9.8	3.82	13.62					
10		n.s.	n.s.	.	.					
11		n.s.		.	.					
12										
13										
14										
15										

"q" images elongated.

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Scale m B Series 60.

B 45698 164K o 39 - 44 Alt + 02

						Diffr Inn.			
	pc.1	pc.2		Cu	Magn	pc.2	pc.2		pc.2
1	5.2 (54)	5.4	5.40 0 0	3.52	8.92	tf.	tf.		f.
2	5.5 (57)	5.1	5.70 0 0	3.48	9.18		tf.		f.
3	5.6 (58)	5.1	5.75 0 1	3.47	9.22	8.8	029	9.09	n.s.
4	6.5 (67)	6.8	6.75 1 0	3.36	10.11	9.7	0.11	9.81	n.s.
5		7.4		3.37 (6)	10.76	f.	f.	,	,
6		7.6		3.37	10.97	n.s.	.	,	
7		7.4		3.36	10.76				
		7.85 0 1							
8		7.8 7.9		3.38	11.23				
		8.20 0 0							
9		8.2 8.2		3.40	11.60				
		8.40 0 0							
10		8.4 8.4		3.42	11.82				
		8.85 0 1							
11		8.8 8.9		3.50	12.35				
		8.90 0 0							
12		8.9 8.9		3.53	12.43				
		9.35 0 1							
13		9.4 9.3		3.67	13.02				
		9.70 0 2							
14		9.7? 9.7		3.78	13.48?				
		9.95 1 0							
15		9.9 10.0		3.86	13.81				

Film badly scratched

9 images elongated. Do not compare with scale.

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Scale M

B series 60 -

B 45699 200 K 0 22 - 149

Alt - .30

Diffr. Inv. P.C.

	sc.1	sc.2		Cu	Magn	q. h. sc.2			sc.2
	5.7								
1	5.5	5.1	5.70	0 0	3.348	9.18	t.f. t.f.	.	n.s.
	5.9								
2	5.1	6.0	5.95	1 0	3.344	9.39	t.f. 9.3	0.21	9.51
	6.5						9.85 01 ?		
3	6.3	6.9	6.60	1 1	3.37	9.97	9.8 9.9'	0.06	9.96°
	7.1								
4	6.9	7.1	7.10	0 0	3.36	10.36	n.s. n.s.		.
5		7.6			3.37	10.97			
6		7.8			3.39	11.19			
7		8.1			340	11.50			
8		8.3			3.41	11.71			
9		8.4			3.42	11.82			
10		8.7			3.48	12.18			
11		8.8	8.8	8.80	0 0 3.50	12.30			
12		9.0	9.1	9.05	0 1 3.56	12.61			
13		9.3	9.2	9.25	1 0 3.63	12.88			
Inv. sharp. 14		9.3	9.6?	9.45	1 2 370	13.15			
15		10.0	9.9	9.95	0 1 386	13.81			

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Scale m. B Series 60.

B +5100 C1 1 + 15°

Q.C.

	sc.1	sc.2			sc. 2	Diff
1	B				8.1	− 1.52
2	B				8.1	− 1.31
3	B				8.8	− 1.30
4	B	B.			9.5	− 1.54
5	4.5	4.1	4.7	4.70 00	9.9	− 1.57
6	3.8	4.5	4.0	4.10 ± 1	9.6	− 1.12
7	4.5	5.1	4.7	490 22	n.s 10.0	− 1.5 33
7a	t.p.	t.p.			10.0	− 11.4
8	5.6	5.8	5.8	580 00	n.s.	,
9	5.1	5.5	5.3	540 ± 1	n.s	,
dbl? 10	t.p.	t.p.				
11	5.6	5.1	5.8	575 0 ±		
12	6.1	6.5	6.3	640 ± 1		
13	6.1	6.5	6.3	640 ± 1		
13a	6.9	7.1	7.1	710 00		
14	6.9	7.1	7.1	710 00		
15		7.6				
16		7.8				
17		8.1	8.1	810 00		
18		8.5				
18a		8.4				
19		8.1	8.6	865 10		
20	b+	9.2				
21		9.3	9.4	935 ± 0 990 00	Star Inv	
21a		9.9	9.9			
22		10.0	10.0	10.03 00	26 10.0 10.0?	10.00 00 4.12
23		9.8	9.7	975 0 ±	27 n.s. n.s	,
24		9.9	10.0	995 ± 0		

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Scale m-

B Series 60.

B 4570 00

	g		h		C1 cont.	Diff. Im.
	sc.1	sc.2	sc.1	sc.2	Diff.	
			6.8			
1	t.f.		6.6		0.38	
2				t.f.	.	
3					7.1	0.40
4				t.f.	.	
5	t.f.				8.1	0.23
6					8.1	0.38
7	t.f.				8.4	0.27
7a				t.f.	.	
8					8.7	0.49
9					9.1	0.18
10					9.3	0.20
11	t.f.				9.6	0.09
12					9.9	0.12
13					10.0	0.15
13a					&	.
14					n.s.	.
15						
16						
17						
18						
19						
20						
21						
22						

"g" images are elongated.
not comp. with scale-

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Friday December 31. 1915

Salem B Series 60.

B 45700 C1 1 + 15

		sc.1	sc.2		Diff.	P.C. sc.2	Diff
1	B.				.	8.1	− 1.52
2	B.				.	8.8	− 1.41
3	3.2 3.0				4.30	8.4 poor	− 1.20
4	t.f.				.	9.4	− 1.44
5	t.f.				.	9.9	− 1.57
6	4.3 4.1				4.18	9.1	− 1.22
7	4.7 4.5				3.97	9.9	− 1.23
7a	t.f. B.				.	7.	.
8	5.8 5.6	5.5	5.65	2 L	3.54	n.s.	.
9	5.3 5.1	5.2	5.25	1 0	4.03	n.s.	.
elong. 10	t.f.				.		
11	5.9 5.1	5.1	5.80	1 L	3.89		
12	6.3 6.1	6.3	6.30	0 0	3.72		
13	t.f.	6.5? poor			3.65		
13a	7.1 6.9	7.1	7.10	0 0	3.34		
14		7.2			3.42		
15		7.1			3.34		
16		7.8			3.40		
17		8.00 L 1 7.9	8.1		3.50		
18		8.45 0 1 8.4	8.5		3.49		
18a		8.40 0 0 8.4	8.4				
19		8.70 0 0 8.1	8.1		3.51		
20		9.10 0 0 9.1	9.1		3.52		
21		9.35 0 L 9.4	9.3		3.54		
21a		9.90 0 0 9.9	9.9				
22		10.00 0 0 10.0	10.0		3.56		

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Scale m

B Series 60.

B 4570 00 C 1 cont.

		pc.2	
23	99		366
24	I.		"
25	I.		"
26			
27			

faintest than 10th image

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Scale M

B series 60.

B45700 cont. Diffr. Inn.

	g		h		
	sc.1	sc.2	sc.1	sc.2	
1	tf.		t.f.		.
2			t.f.		.
3			6.9		0.60
4			t.f.		.
5			7.9		0.43
6			8.2		0.28
7	t.f.		8.4		0.27
7a			t.f.		.
8			8.7		0.49
9			9.1		0.18
10			9.3		0.20
11			9.3		0.39
12			9.8		0.22
13			10.1		0.05
13a			f.		.
14			n.s.		.
15					
16					
17					
17a					

"g" diffr. Images are too poor.

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Scale m B Series 60 Copied B 27: 4

B 45701 D1 1 — 15° Alt +08

	sc1	sc2					P.C. sc2	Cu	Magn
1	.						t.p.	.	.
2	.						9.3	−1.37	7.93
3	.						9.5	−1.34	8.16
4	.				Cu.		9.8	−1.30	8.50
5	t.p.				.		9.8	−1.30	8.50
6	t.p.				.		n.s.	.	.
7	t.p.	t.p.			.		9.1	−1.31	8.39
8	4.8 (5.0)	.			3.92	8.92	9.9	−1.27	8.63
9	4.9 (5.1)	5.3	5.20	1 1	3.86	9.06	n.s.	.	.
10	4.7 (4.9)	5.3	5.10	2 2	3.90	9.00	n.s.	.	.
11	5.6 (5.8)	5.1	5.75	0 1	3.72	9.47			
12	5.1 (5.9)	5.1	5.80	1 1	3.70	9.50			
13	5.9 (6.1)	6.2	6.15	1 0	3.62	9.77			
14	6.0 (6.2)	6.4	6.30	1 1	3.59	9.89			
15	6.1 (6.3)	6.5	6.40	1 1	3.56	9.96			
16	6.3 (6.5)	6.6	6.55	1 0	3.52	10.07			
17	6.8 (7.0)	7.1	7.05	0 1	3.43	10.48			
18		7.6			3.40	11.00			
19		7.6			3.40	11.00			
20		7.7			3.40	11.10			
21		7.9			3.41	11.31			
22		8.1			3.42	11.52			
23		8.3	8.4	8.35	1 0	3.44	11.79		
24		8.4	8.4	8.40	0 0	3.45	11.85		
25		8.6	8.6	8.60	0 0	3.46	12.06		
26		8.8	8.7	8.75	0 1	3.48	12.23		

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Scale m

B Series 60

B4570 1 cont.

	sc 2	sc 2		Cw.	Magn
27	8.7	8.8	8.75	L 0 3.48	12.23
28	9.4	9.4	9.40	0 0 3.54	12.94
29	9.5	9.4	9.45	1 0 3.55	13.00
30	9.7	9.8	9.75	L 0 3.59	13.34
31	9.9	10.0	9.95	L 0 3.63	13.58
32	±	±	.	.	.
33	n.s.		.	.	.

Sequence not in centre of plate.

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Scale M B Series 60. Copied B 27; 4

B 45701 D1 Diffr. Im.

	g sc.1	g sc.2	h sc.1	h sc.2		
1	t.f.		t.f.			
2			t.f.			
3			t.f.			
4			t.f.			
5			t.f.			
6			t.f.			
7			t.f.			
8			t.f.			
9			t.f.			
10	t.f.		t.f.			
11			9.1	0.27	9.37	
12			9.2	0.25	9.45	
13			9.6	0.22	9.82	
14			t.f.	"	"	
15			10.1	0.19	10.29	
16			m.s.	"	"	
17						
18						
19						

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Scale m B series 60- Copied B 27: 100

B 45 to 2 E1 1 20 - 45° Alt +02

	sc.1	sc.2		Cu.	Magn	P.C sc.1/sc.2		
1	.			.	.	8.5	- 1.46	7.04
2	.			.	.	8.1	- 1.44	7.26
3	3.2 3.0			.	.	8.1	- 1.44	7.26
4	3.7 3.5			4.24	7.94	8.8	- 1.41	7.39
5	t.f.			.	.	t.f.	.	.
6	4.0 3.8			4.17	8.17	t.f.	.	.
7	4.7 4.5			4.01	8.71	t.f.	.	.
8	t.f. - 5.1			3.90	9.00	9.1	.	.
9	t.f.	t.f.		.	.	9.8?	- 1.30	8.50?
10	4.1 3.9	4.2	415	L 0	4.14	8.29	9.9 - 1.27	8.63
11	5.9 5.1	5.1	5.80	1 L	3.70	9.50		
12	5.0 4.8	5.1	5.05	0 1	3.91	8.96		
13	5.9 5.1	5.8	5.85	1 0	3.70	9.55		
14	6.3 6.1	6.4	6.35	L 0	3.57	9.92		
15	6.5 6.3	6.6	6.55	L 0	3.52	10.07		
16	6.6 6.4	6.9	6.65	0 1	3.86 51	10.16		
17	6.9 6.7	6.9	6.90	0 0	3.86 4	10.26 3		
18		7.5			3.40	10.86 90		
19		8.1			3.48 2	11.52		
20		8.1			3.42	11.52		
21		8.3			3.47	11.74		
22	8.50 00 8.5	8.5			3.45	11.95		
23	8.60 00 8.6	8.6			3.46	12.06		
24	8.80 00 8.8	8.8			3.48	12.28		
25	8.90 00 8.9	8.9			3.49	12.39		
26	9.10 00 9.1	9.1			3.50	12.60		

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Scale m

B Series 60

B45702 E1 cont.

	dc?	dc?				
	9.3					
27	~~9.7~~ 9.1	9.6	9.45	L 2	3.55	13.00
28	9.9	9.1	9.80	1 L	3.60	13.40
29	10.0				3.64	13.64
30	7					
31	7					
32	n.s.					
33	n.s.					
34	n.s.					
35						
36						
37	n.s.					

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Scale m

B Series 60.

Copied B 27:100

B 4570 21 1911 Diffr. Images.

	g sc.1	g sc.2	h sc.1	h sc.2	Cu.	
1			t.f.			
2			t.f.			
3			6.6		0.65	7.25
4			t.f.		.	.
5				t.f.	.	.
6				~~t.f.~~ 7.3	0.53	7.83
7				t.f.	.	.
8				t.f.	.	.
9				t.f.	.	.
10				t.f.	.	.
11				t.f.	.	.
12				8.1	0.31	9.01
13				9.3	0.24	9.54
14				9.9	0.20	10.10
15				9.9	0.20	10.10
16				1/2	.	.
17						
18						
19						
20						
21						
22						
23						

"g" images are too faint.

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Friday, December 31, 1915.

Copied B 34; 80

Scale m

B Series 60.

B 4570 3 188 K 1 23 – 59.8 Alt – 08

	Sc.1	Sc.2		Cm.	Magn.	Diffr. Imm. Sc.1	Diffr. Imm. Sc.2	P.C. Sc.2
1	B.			.	.	sup.	sup.	8.1 – 1.44 7.26
2	B.	B.		.	.	sup.	sup.	9.9 – 1.31 8.39
3	5.6 (5.8)	5.6	5.70 1 1	3.74	9.44	t.p.	t.p.	n.s. . .
4	5.8 (6.0)	5.8	5.90 1 1	3.69	9.59	t.p.	t.p.	
5	6.1 (6.3)	6.2	6.25 1 0	3.60	9.85	t.p.	9.6 0.2^2	9.8^2
6		7.1		3.42	10.52	n.s.	n.s.	
7		7.4		3.40	10.80			
8		7.5		3.40	10.90			
9		7.5		3.40	10.90			
10		8.1		3.42	11.52			
11		8.45 0 1 8.4 8.5		3.45	11.90			
12		8.50 0 0 8.5 8.5		3.46	11.96			
13		8.70 1 1 8.6 8.8		3.48	12.18			
14		9.30 0 0 9.3 9.3		3.53	12.83			
15		9.85 1 0 9.9 9.8		3.60	13.45			

All images are elongated.

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Friday December 31, 1915

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Scale m

B series 60 -

B 4570 4 71 4 - 75° Alt - 37

							O.C.		
	sc1	sc2					sc2	Cu.	
1	B.				.		8.6	- 1.45	7.15
2	B				.		t.p.	.	.
3	B.				.		8.9	- 1.41	7.49
4	B				.		8.9	- 1.41	7.49
5	B.				.		8.9	- 1.41	7.49
6	3.9 3.1				4.20	8.10	9.2	- 1.38	7.82
7	B.				.	.	9.1	- 1.31	8.39
8	4.4 4.2				4.09	8.49	9.8	- 1.30	8.50
9	4.7 4.5				4.01	8.71	t.p.	.	.
10	t.p.	4.7			4.01	8.71	t.p.	.	.
11	5.1 4.9	5.2	5.15	1 0	3.88	9.03	±	.	.
12	t.p.	5.1			3.74	9.44			
13	5.3 5.1	5.2	5.25	1 0	3.86	9.11			
14					.	.			
15	5.8 5.6	5.8	5.80	0 0	3.70	9.50			
16	6.0 5.8	6.1	6.05	0 1	3.64	9.69			
17	6.3 6.1	6.5	6.40	1 1	3.56	9.96			
18	7.0 6.8	6.9	6.95	0 1	3.45	10.40			
19	7.0 6.8	7.0	7.00	0 0	3.44	10.44			
20	7.0 6.8	7.1	7.05	0 1	3.03	10.08			
21		7.2			3.41	10.61			
22		7.3			3.40	10.70			
23		7.8			3.40	11.20			
24		7.8			3.40	11.20			
25		8.4			3.45	11.85			
26		8.4			3.45	11.85			

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Friday December 31, 1915.

Scale m

B series 60 -

B 4570 4 cont.

	RC 7	RC 7			Cu.	
24	8.2	8.2	8.20	0 0	3.43	11.63
28	8.7	8.7	8.70	0 0	3.48	12.18
29	9.0	9.2	9.10	1 1	3.50	12.60
30	9.3	9.3	9.30	0 0	3.54	12.84
31	9.5	9.4	9.45	1 0	3.55	13.00
32	9.6	9.7	9.65	0 1	3.59	13.24
33	9.6	9.7	9.65	0 1	3.59	13.24
34	f.	f.			.	.
35	n.s.	n.s.			.	.

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Scale M

B Series 60 -

	B 45704			F1		Diffr. Inn.
	g			h		B.C.
	sc.1	sc.2	sc.1	sc.2		sc.1
1	t.f.			t.f.		
2				t.f.		
3				t.f.		
4				t.f.		
5				t.f.		
6				t.f.		
7				t.f.		
8				t.f.		
9	t.f.			t.f.		
10				t.f.		
11				t.f.		
12				9.3	0.24	9.54
13	t.f.			l.f.	.	.
14						
15				t.f.	.	.
16				9.8	0.20	10.00
17				9.9	0.19	10.09
18				n.s.	.	
19						
20						
21						
22						
23						
24	all "g" images ~~are~~ elongated.					
25	nearly "			h "		"

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Friday December 31, 1915 -

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Salem

B Series 60 -

*B 45705 82

	sc.1	sc.2			sc.2	Cu.	Magn
1	.				t.p.	.	.
2	.				9.1	-1.39	7.71
3	.				8.8	-1.42	7.38
4	.				8.9	-1.41	7.49
5	.				9.1	-1.31	8.39
	4.3	Cu.	Magn.		9.5	-1.34	8.16
6	4.1	4.12	8.42		9.9	-1.27	8.63
7	t.p.	.			t.p.	.	.
8	t.p.	.			?	.	.
9	t.p.	.			?	.	.
10	t.p.	.					
11	t.p.	.					
	5.0						
12	4.8	3.92	8.92				
	4.8						
13	4.6	3.98	8.78				
14	t.p.	.					
15	t.p.	.					
16	t.p.	.					
17	t.p.	.					
18	t.p.	.					
	6.0						
19	5.8	3.65	9.65				
20	t.p.	.					
21	t.p.	.					
22	t.p.	.					
23	t.p.	.					
24	t.p.	.					
25	t.p.	.					
26	t.p.	.					

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Friday December 31, 1915.

Scale m B Series 60.

B 45705 cont. E2.

	sc.	Cu.	Magn.
27	sup.	.	
28	f.	.	
29	8.1	3.42	11.52
30	8.3	3.44	11.74
31	f.	.	.
32	f.	.	.
33	8.9	3.49	12.39
34	9.4	3.55	12.95
35	9.7	3.59	13.29
36	f.	.	.

Diffraction Images are all out of focus. Not measured.
"Star Images poor, but measure" H.S.L.

B 45706 not measured. Qual C.

* very poor images.

1:52

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Monday January 3, 1916

Scale m Series 65

10:20 * B 4576 4 C 12. 13 + 15°

						O.C.	
		No. 1				No 2	
1						8.76	− 1.00
2						8.1?	− 1.11
3						8.2	− 0.92
4						8.6	− 1.04
5		B.				8.8	− 0.96
6	t.p.	4.5			3.72	9.1	− 0.88
~~7~~ Omit." H.S.L.		.			.	.	,
8	.	t.p.			.	9.2	− 0.60
9	5.1 (5.3)	5.0	5.15	12	3.86	n.s.	,
~~10~~	.	.			.	.	,
11	5.1 (5.3)	5.3	5.30	0 0	4.01	7	,
12	5.5 (5.7)	5.6	5.65	1 0	3.96		
~~13~~	.	.			.		
14	5.9 (6.1)	6.1	6.10	0 0	3.81		
~~15~~	5.8	.			,		
16	.	6.6			3.78		
17	6.7 (6.9)	6.8	6.85	1 0	3.80		
		7.35	0 1				
17a		7.4	7.3		3.73		
		7.50	0 0				
18		7.5	7.5		3.80		
		7.75	1 0				
19		7.7	7.8		3.72		
~~19a~~		.	.		,		
		7.85	0 1				
20		7.8	7.9		4.05		
		8.35	1 0				
21		8.3	8.4		3.88		
		8.55	1 0				
21a		8.5	8.6		4.10		
		8.80	0 0				
22		8.8	8.8		4.11		
		8.80	0 0				
23		8.8	8.8		4.21		

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Monday, January 31, 1916

Scale m. B Series 65.

B 45764 C 12 cont.

	sc.2	sc.2		
24	t.f.	9.1		4.34
25	8.9 from	9.1	9.00 L 1	4.48
26	9.1	9.2	9.15 L 0	4.51
~~27~~	9.7	9.8	9.75 L 0	4.26
~~28~~				
29	10.1	10.1	10.10 00	4.36
30	n.s.	n.s.	"	"

* all Images elongated.

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Monday January 3, 1916

Scale m

B Series 65

B 4574 C 12 cont- Diffr. Inn.

		q sc.1	q sc.2	h sc.1	h sc.2	Diff.
	1	5.4 5.2	5.60 2 2	5.8 5.6		1.00
	2	6.0 5.8	6.00 0 0	6.0 5.8		0.99
t.p.	3	.		,		.
	4	.		.		.
	5	.		.		.
	6	.		.		.
	7	.		.		.
	8	.		.		.
	9	t.p.			8.2	0.81
	10	.		,		,
	11	.		.		,
	12	t.p.		8.	8.8	0.81
	13	t.p.		t.p.		,
	14	t.p.			9.2	0.71
	15	~~t.p.~~			~~9.1~~	,
	16	10.0 9.8	5 2		9.1	0.53
	17	†				,
	17a					
	18					
	19					
	19a					

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Scale m B Series 65 Alt Corr -.01

B 45765 R Phoenicis 2 3 51 – 50 4

	sc 1	sc 2		Cu.	Magn	g sc 2	h sc 2		Cu.		P.C. sc 2	Cu
a	43 4.1	4.2	4.25 1 0	3.92	8.17	8.3	8.3	8.30 0 0	0.56	8.86	9.4	– 1.00 8.40
b	46 4.4	4.7	4.65 0 1	3.88	8.53	t.p.	17.8		0.59	8.39	9.20 L 1 9.1	9.3 – 1.03 8.17
c	48 4.6	4.9	4.85 0 1	3.87	8.72	t.p.	8.1		0.57	8.67	9.40 L 1 9.3	9.5 – 1.00 8.40
d	59 5.1	5.1	5.80 1 1	3.74	9.54	t.p.	8.1		0.54	9.24	n.s.	, ,
f	61 5.9	6.1	6.10 0 0	3.72	9.82	9.1	9.1	9.10 0 0	0.52	9.62		
e	59 5.1	5.9	5.90 0 0	3.74	9.64	t.p.	9.1		0.52	9.62		
g	66 6.4	6.8	6.70 L 1	3.69	10.39	9.5	9.8	9.65 1 2	0.49	10.14		
g'		7.55 0 1 7.6	7.5	3.70	11.25	t.	t	,	,	,		
h		7.85 0 1 7.8	7.9	3.74	11.59		n.s.	,	,	,		
k		8.30 0 0 8.3	8.3	3.80	12.10							
l		8.80 0 0 8.8	8.8	3.84	12.68							
m		9.75 2 1 9.6	9.9	4.02	13.77							
Var.		8.1		3.78	11.88							

Why P.C. of star "a" so faint?

Whole sequence is off centre.

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Scale M

B Series 65.

Alt Cor -.15

B 45766 R Lucanae · 23 52 -65.9

	sc.1	sc.2		Cw	Magn	Diff Im. sc.1	Diff Im. sc.2		Cw.		P.C. sc.2	P.C. Cw.	
α	B			.	.	tf.	tf.		.	.	8.3	-1.12	7.18
β	B.			.	.	tf.	tf.		.	.	8.7	-1.09	7.61
γ	4.6 4.8	B.		3.86	8.66	8.2	8.2	8.20 00	0.56	8.76	9.3	-1.00	8.30
a	5.8	5.8	5.90 1 1	3.74	9.64	9.1	9.1	9.10 00	0.52	9.62	10.0	-0.90	9.10
b	6.0 6.3	6.4	6.35 1 0	3.70	10.05	tf.	9.3		0.51	9.81	n.s.	.	.
c	6.9 6.7	7.1	7.00 1 1	3.70	10.70	9.6	tf.		0.50	10.10			
d		7.2		3.70	10.90	t	f.		.	.			
a'		7.3		3.70	11.00								
e		7.8		3.73	11.53								
e' f		8.1		3.77	11.87								
f		8.1		3.77	11.87								
g		8.5		3.83	12.33								
h		8.6		3.86	12.46								
k'		8.4		3.82	12.22								
k		8.7		3.86	12.56								
l'		8.8		3.88	12.68								
l	8.95 2 1 8.8	9.1		3.90	12.88								
l^2	8.95 1 2 9.1	8.8		3.90	12.85								
m	9.15 0 1 9.2	9.1		3.94	13.09								
n	9.50 0 0 9.5	9.5		~~3.99~~	13.59								
l^3	9.60 1 1 9.7	9.5		4.00	13.60								
o	9.60 3 3 9.3	9.9		4.00	13.60								
h	10.00 0 0 10.0	10.0		4.08	14.08								
f	f. n.s.			.	.								

Not a² not measured. Diffr. Image of bright star superposed on a²

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Monday January 3, 1916

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Scale m — B Series 65 — Alt Con +05

B 4576 7 — δ Sculptoris — 0 10 − 32.6

	sc.1	sc.2		Cu.	Magn	Diff. Sm. sc.1	sc.2			O.C. sc.2	Cu.	Magn
a	t.f.					t.f.				8.1	− 1.13	6.97
b	3.9 3.7	B.		4.00	7.90	6.4 u.f.	t.f.	0.65	7.05	8.6	− 1.10	7.50
c	4.2 4.0	4.2	4.20 00	3.96	8.16	t.f.				9.1	− 1.04	8.06
c'	t.f.	4.5?		3.92	8.42?	t.f.				9.1	− 1.04	8.06
d	5.6 5.4	5.6	5.60 00	3.76	9.36	t.f.				?		
e	5.7 5.5	5.7	5.70 00	3.75	9.45	t.f.				~~10.0?~~ ?		
f	6.8 6.6	6.8	6.80 00	3.69	10.49	f. 10.0		0.48	10.48			
f'		7.6		3.70	11.30							
g		7.5		3.70	11.20							
h		7.8?		3.73	11.53?							
h'		8.2		3.79	11.99							
k		8.1		3.78	11.88							
k'		8.20 00 8.2	8.20 00	3.79	11.99							
l		8.60 00 8.6	8.60 00	3.85	12.45							
m		9.10 00 9.1	9.10 00	3.92	13.02							
n		9.25 10 9.3	9.25 10	3.94	13.19							
o		9.45 01 9.4	9.45 01	3.98	13.43							
p		9.90 00 9.9	9.90 00	4.05	13.95							
Var.		8.60 00 8.6	8.60 00	3.85	12.45							

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Monday January 3, 1916.

Corrected 44:14

Scale M

B Series 65

Alt Corr -.26

B 45769 = 47 Lucanae. O 20-726

	sc.1	sc.2			Cw.	Magn.	sc.1	sc.2			Cw.	Magn.	P.C. sc.2	Cw.	Magn.
a	5.3 5.1	5.5	4 5.20	1/2 1/2	3.78	9.18	tf.	8.4			0.55	8.95	9.1	−.095	8.75
β	6.1 5.9	6.1	6.10	2.0	3.72	9.82	sup.	sup.			.	.			
γ	5.8 5.6	5.6	7 5.60	1/2 1/2	3.75	9.45	tf.	8.6			0.54	9.14			
δ	6.3 6.1	6.1	6.20	1/2 1/2	3.71	9.91	9.1	8.9	900	1/2	0.53	9.53			
b ~~a~~		7.2			3.70	10.90	n.s.	n.s.			.	.			
~~c~~					.	.									
d		9.1			3.93	13.03									
~~e~~					.	.									
f		9.6			4.00	13.60									
g		9.9			4.05	13.95									
h		~~f.~~			.	.									

C 1 2 Hartwig

C 1 2

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Monday January 3, 1916.

Scale M Q Series 65

B45769. C1. 1 + 15°

		sc.1		Diff	P.C. sc.2	
	1	3.1 2.9		408	8.5	− 1.32
Im foor	2	B.		.	8.6	− 1.21
"	3	B.		.	8.8	− 1.30
	4	B.		.	9.1	− 1.14
	5	t.f.		.	9.7	− 1.37
"Omit. H.S.L.	~~6~~	.		.	.	.
	~~7~~	.		.	.	.
	7a	t.f.		.	10.0	− 1.14
	~~8~~	~~t.f.~~		.	.	.
	9	t.f. 5.5?		3.78	n.s.	.
	~~10~~	.	.	.	.	.
	11	5.8 5.6 foor	t.f.	389	?.	.
	12	6.3 6.1	6.5 6.40 L 1	3.62		
	~~13~~	.	.	.		
	13a	7.1 6.9?	7.1 7.10 00	3.37		
	14		7.1	3.52		
	15		7.7	3.34		
	16		7.8	3.40		
			790 00			
	17		7.9 7.9	3.60		
			8.30 00			
	18		8.3 8.3	3.64		
			8.30 00			
	18a		8.3 8.3			
			8.50 00			
	19		8.5 8.5	3.71		
			885 01			
	20		8.8 8.9	3.77		
			9.35 01			
	21		9.4 9.3	3.54		
	21a	—	9.65 10			
			990 00			
	24	~~23~~	9.9 9.9	368		
			995 L0			
	25	~~25~~	9.9 10.0	3.81		
	26		~~9.9~~ ~~t.~~ ~~f.~~			

Images do not compare with scale.

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Monday January 3, 1916 –

Scale M

B series 65

	B 45770 g sc.1	B 45770 g sc.2	B 45770 h sc.1	B 45770 h sc.2	Diff.
1				7.1	008
2				t.f.	.
3	t.f.		t.f.	7.1?	0.40
4				t.f.	.
5				8.1	0.23
6	t.f.			8.1	0.38
7				8.4	0.27
7a				t.f.	.
8				8.6	0.59
9	9.0 8.8? hom.		8.95	0	0.33
10				.	.
11				9.21	0.49
12				9.26	0.42
13				.	.
13a				10.0	0.44
14					
15					
16					

"omit. H.S.L

12:16

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1915phae.proj.10720

Wednesday January 5, 1916 -

Scale M

B series 49 -

12:45 B 45549 09 -

									D.C.	
		pc.1	pc.2				Diff.		pc.2	
		29								
3		2.1					4.14		8.5	− 1.46
3a		3.3	35				3.85		8.7	− 1.35
4		3.1	39				3.92		9.1	− 1.28
		4.3								
5		4.1	B.				3.76		9.4	− 1.34
		49								
6		4.1	4.6		475	12	3.72		9.1	− 1.23
6a			+h.						7.	,
		49							7.	,
7		4.1	5.0		495	10	4.09			
		59							n.s.	,
8		5.1	5.9		590	00	3.63			
8a		5.1	6.1		600	11	3.68			
9		6.3	65		630	22	3.79			
		7.1								
12		6.9	1.0		705	10	3.52			
14		1.4					3.39			
15		7.1	7.1		770	00	3.43			
16		8.3	8.1		820	11	3.40			
			88							
17		8.2	7.7		825	01	3.58			
18		8.1	8.1		870	00	3.71			
20		9.3	9.3		930	00	3.46			
21		9.3	9.3		930	00	3.76			
22		9.8	9.8		980	00	3.60			
23		10.1	10.1		1010	00	3.64			
24		7.	7.		,		.			
25		n.s.			,		,			
27		n.s.			,		,			
28										
29										
30										
31										
32										

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Wednesday January 5. 1916.

Scale m

B series 49.

	B 45549 g sc.1	B 45549 g sc.2	B 45549 h sc.1	B 45549 h sc.2	C9	Diff. Int.
3			6.7 6.5	t.f.		0.34
4					7.6	0.22
5					7.7	0.36
6					8.2	0.27
7	8.8	8.75 0½			8.1	0.29
8	9.3	9.20 1½			9.1	0.33
9	7				9.9 7	0.19
12	.				7	,
14	.				n.s.	,
15						
16						
17						
18						
20						
3a	6.7 6.5?			t.f.		0.65
8a	9.5?	9.40 1½			9.3	28 0.65
6a	.				8.3 poor	0.34

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Wednesday January 5, 1916

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Scale N

B Series 49-

B4555 o. '134 K 18 11 - 150. Alt +.08 25° Overexposed.

Diffr. Inn. P.C.

	sc.1	sc.2		Cw.	Magn	h	Cw.	Magn	sc.2	Cw.	Magn
1	B.	B.		.	.	th. 7.2	0.41	7.61	8.1	– 1.20	7.50
2	4.9 4.1	5.1	500 L 1	3.85	8.85	7.9	0.37	8.27	9.9	– 1.20	8.70
3	5.7 5.5	5.5	560 1 L	3.76	9.36	th. 8.5	0.34	8.84	7.	.	
4	6.0 5.8	5.8	590 1 L	3.73	9.63	8.1	0.33	9.03			
5	6.3 6.1	6.2	625 1 0	3.66	9.91	9.1	0.32	9.42			
6	6.8 6.6	6.8	680 0 0	3.60	10.40	f.	f.	.	.		
7	6.8 6.6	6.9	685 0 1	3.59	10.44		f.	.	.		
8		7.0 7.55	0 L 7.5	3.52	11.07						
9		7.5		3.52	11.02						
10		7.5 7.60	L 1 7.7	3.52	11.12						
11		8.2		3.51	11.71						
12		8.4 8.3	835 0 L	3.53	11.88						
13		8.8 8.7	875 0 L 910 0 0	3.54	12.29						
14		9.1 9.1	915 L 0	3.57	12.67						
15		9.1 9.2	980 L 1	3.57	12.72						
16		9.7 9.9	985 0 1	3.60	13.40						
17		9.8 9.9		3.60	13.45						
18		10.2?		3.64	13.84?						

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Wednesday January #5, 1916 -

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Scale m

B series 49 -

B 45551 158 K 18 24 - 30.0 Alt +.06

Diffr Inn. D.C.

	Dd.1	sec z		Cu.	Magn	g h sec z	Cu.	Magn	sec z
1	50 4.8	5.21	5.10	11 3.84	8.94	8.1	0.36	8.46	1
2	59 5.1	5.9	5.90	00 3.72	9.62	9.2	0.32	9.52	n.s.
3	6.4 6.21	6.5	6.45	01 3.62	10.07	9.68 21 98	9.5 0.31	9.96	
4		7.4		3.53	10.93	n.s.	.	.	
5		7.5		3.52	11.02				
6		7.5		3.52	11.02				
7		8.0		3.50	11.50				
8		8.1	8.1	8.10 00 3.50	11.60				
9		8.6	8.6	8.60 00 3.53	12.13				
10		8.8	8.7	8.75 01 3.54	12.29				
11		9.1	9.0	9.05 10 3.57	12.62				
12		9.3	9.2	9.25 10 3.58	12.83				
13		9.9	9.9	9.90 00 3.61	13.51				
14		?	?	.	.				
15		n.s	n.s.	.	.				

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Wednesday January 5, 1916 -

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Scale

B Series 49-

13 45552 ~~D 10~~ 182 K ~~19 = 15~~ 18 51 -449° Alt +02

	sc.1	sc.2		Cu.	Magn	Diffr. Im. sc.2 − sc.2	Cu		O.C. sc.2	
1	4.7	4.9	4.90 00	386	8.76	8.15 01 / 8.2 8.1	0.35	8.50	9.8 − 1.20	8.60
2	5.9	5.9	6.00 1 1	370	9.70	t.f. 8.8	0.32	9.12	1.	
3	6.4	6.7	6.65 0 1	361	10.26	9.60 1 1 / 9.1 9.5	0.31	9.91		
4	6.6	6.8	6.80 0 0	359	10.39	9.70 0 0 / 9.1 9.7	0.31	10.01		
5	6.7	6.8	6.85 1 0	359	10.44	9.75 1 0 / 9.1 9.8	0.30	10.05		
6		7.2		354	10.74	t.f. 10.0	0.30	10.30		
7		7.5		353	11.03					
8		7.5		353	11.03					
9		8.1		351	11.61					
10		8.3		351	11.81					
11		8.5	8.5 8.50 00	353	12.03					
12		8.7	8.7 8.70 00	354	12.24					
13		9.1	9.1 9.10 00	356	12.66					
14		9.4	9.4 9.40 00	359	12.99					
15		9.9	9.9 9.90 00	361	13.51					
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										

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Wednesday January 5, 1916—

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Scale m

B series 49.

B 45553 D.10 19 — 15° Alt +08

	sc.1	sc.2				sc.2		
1	t.p.			Cu	Magn	8.4	− 1.20	7.20
2	3.2 3.0			404	7.24	8.4	− 1.20	7.20
3	.			.	.	t.p.	.	.
4	.			.	.	8.6	− 1.20	7.40
5	.			.	.	t.p.	.	.
6				.	.	9.1	− 1.20	7.90
7	3.9 3.7			398	7.88	9.3	− 1.20	8.10
8	4.5 4.3	4.5	450 0 0	391	8.41	nearly surf.		.
9	t.p.	t.p.		.	.	9.8	− 1.20	8.60
10	t.p.	t.p.		.	.	9.5	− 1.20	8.30
11	5.3 5.1?	from t.p.		380	9.10?	t.	.	.
12	4.9 4.7	4.9	490 0 0	386	8.76	9.9	− 1.20	8.70
13	4.9 4.7	5.1	500 1 1	385	8.85	n.s.	.	.
14	5.5 5.3	5.5	550 0 0	378	9.28			
15	7.1 6.9	7.2	7.15 1 0	354	10.69			
16	6.1 5.9	5.9	600 1 1	370	9.70			
17	6.6 6.4	6.7	665 0 1	361	10.26			
18	6.3 6.1	6.2	625 1 0	366	9.91			
19	6.8 6.6	6.8	680 0 0	359	10.39			
20		7.4		353	10.93			
21	7.1 6.9	7.1	7.10 0 0	355	10.65			
22		7.2		355	10.75			
23		7.6		352	11.12			
24		7.4		353	10.93			
25		7.9		350	11.40			
26		8.1	7.8 7.95 1 2	350	11.45			

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Wednesday January 5, 1916 –

Scale M B Series 49 –

B 45553 D 10 –

	sc.2	sc.2		
27	7.8	7.9	3.50	11.30
28	8.1	8.1	3.50	11.60
29	8.4	8.2	3.51	11.81
30	8.5	8.5	3.53	12.03
31	8.6	8.6	3.54	12.14
32	8.8	8.8	3.55	12.35
33	9.4	9.4 w.s.	3.59	12.99
34	9.6	9.7	3.60	13.25
35	?	9.8?	3.60	13.40?
36	?	?		

2 9.9

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Scale M

B Series 49.

B 45553 D 10. 19-15 Diffr. Inn.

	g sc.1	g sc.2	h sc.1	h sc.2	Cw.	Magw
1				t.f.		
2				t.f.		
3				t.f.		
4				t.f.		
5				t.f.		
6				t.f.		
7				7.6	0.39	7.99
8				7.8	0.37	8.17
9				7.9	0.36	8.26
10	t.f.			7.6	0.39	7.99
11	t.f.			8.4	0.34	8.74
12	8.3	four 830 00		8.3	0.35	8.65
13	8.4	840 00		8.4	0.34	8.74
14	9.1	895 1½		8.8	0.33	9.13
15	t.			t.	,	,
16	t.f.			9.4	0.32	9.72
17	t.f.			9.9	0.30	10.20
18	9.8?			nearly ext.	,	,
19	t.			t.	,	,
20						
21						

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Wednesday January 5, 1916

Scale m.

B series 49-

B 45554 C 10

19 + 15

	pc.1	pc.2		Diff.	P.C. pc.2	Diff.
1	t.f.				8.1	− 1.26
2	t.f.				8.6	− 1.19
3	t.f.				8.6	− 1.26
4	t.f.				8.8	− 0.96
6	4.3? (4.5)			4.00	9.9	− 1.40
7	3.9 (4.1)	Q.		4.19	9.3	− 1.01
8	5.1 (5.3)	5.3	5.30 00	3.80	~~9.4~~ wrong image.	
9	5.1 (5.3)	5.4	5.35 1 0	4.05	n.s.	
10	5.9 (6.1)	5.9	6.00 1	3.69		
11	t.f.	6.3?		3.74		
12	6.6 (6.8)	6.8	6.80 00	3.69		
13		7.1	~~8.1~~ 7.1 0 0	3.63		
15		7.7	7.7 0 0	3.47		
16		8.0	8.1 8 0 5 0 1	3.47		
17		8.4	8.5 8 4 5 0 1	3.45		
18	too nearly sup.	.	.	.		
19		9.2	9.3 9 2 5 0 1	3.49		
20		9.4	9.4 9 4 0 0	3.47		
21		9.8	9.9 9 8 5 0 1	3.63		
22		n.s.	n.s.	,		
24						
25						
26						
27						
28						
h		8.8				
2		9.1				

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Wednesday January 5, 1915

Scale m

B series 49-

B 45554 C 49 19 + 15 Diffr. Inn.

	g		h		
	ac 1	ac 2	ac 1	ac 2	Diff.
1	t.f.		6.6 6.4		0.24
2	t.f.			7.1	0.31
3				7.1?	0.24
4				7.3	0.54
6	t.f.			t.f.	.
7				t.f.	.
8				8.5	0.60
9	t.f.			8.9	0.50
10	9.3	9.30		9.3	0.39
11	t.f.			9.7	0.34
12	t			t	.
13					
15					

"g" images very poor.

3:10

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Thursday January 6, 1916.

Scale 12 — B Series 49 — B 45554 C10 -

	pc 2	pc 3	P.C. pc 3
1	B		7.1
2	B		8.5 faint
3	3.3		8.3 ~~8.5~~
4	B		8.1
6	t.f.	B.	9.1
7	3.5	B	9.2
8	4.1	5.1	~~9.6?~~ sup?
9	4.1	4.1	n.s.
10	5.1	5.1	
11	5.9	6.1	
12	6.3	6.5	
13	6.6	6.1	
15		7.5	
16		7.1	7.1
17		8.2	8.2
18		8.1	8.1
19		9.2	~~8.4~~ 9.3 w.s.
20		9.3	9.4
21		9.8	9.1
22		10.2	10.2?
24		n.s.	n.s.
25			
26			
27			
28			
b		8.5	
c		9.6	

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Thursday January 6 - 1916

Scale

B Series 49 -

13+5554 C10 Diffr. Im.

	g sc.1	g sc.2	h sc.1	h sc.2
1	t.f.		6.1	
2	t.f.		6.6	
3	·		6.3	
4	·		t.f.	
6	·		t.f.	
7	·			t.f.
8	t.f.		8.3	
9	8.9		8.8	
10	9.1		9.1	
11	9.7		9.4	
12	t.		10.0	
13	n.s.		n.s.	
15				
16				
17				
18				
19				
20				
21				
22				
24				



12:25

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Thursday January 6. 1916.

Scale

B Series 49-

B 45555 135K 19 14 - 14.9

	sc.1	sc.2
1		
2		
3		
4	1.4	
5		
6	1.5	
7		
8		
9		
10		
11		
12		
13		
14		
15		

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Thursday January 6, 1915

Scale

B Series 49

B4555b 2 KS 19 10 0.0

oc.1

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

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Thursday January 6-1915

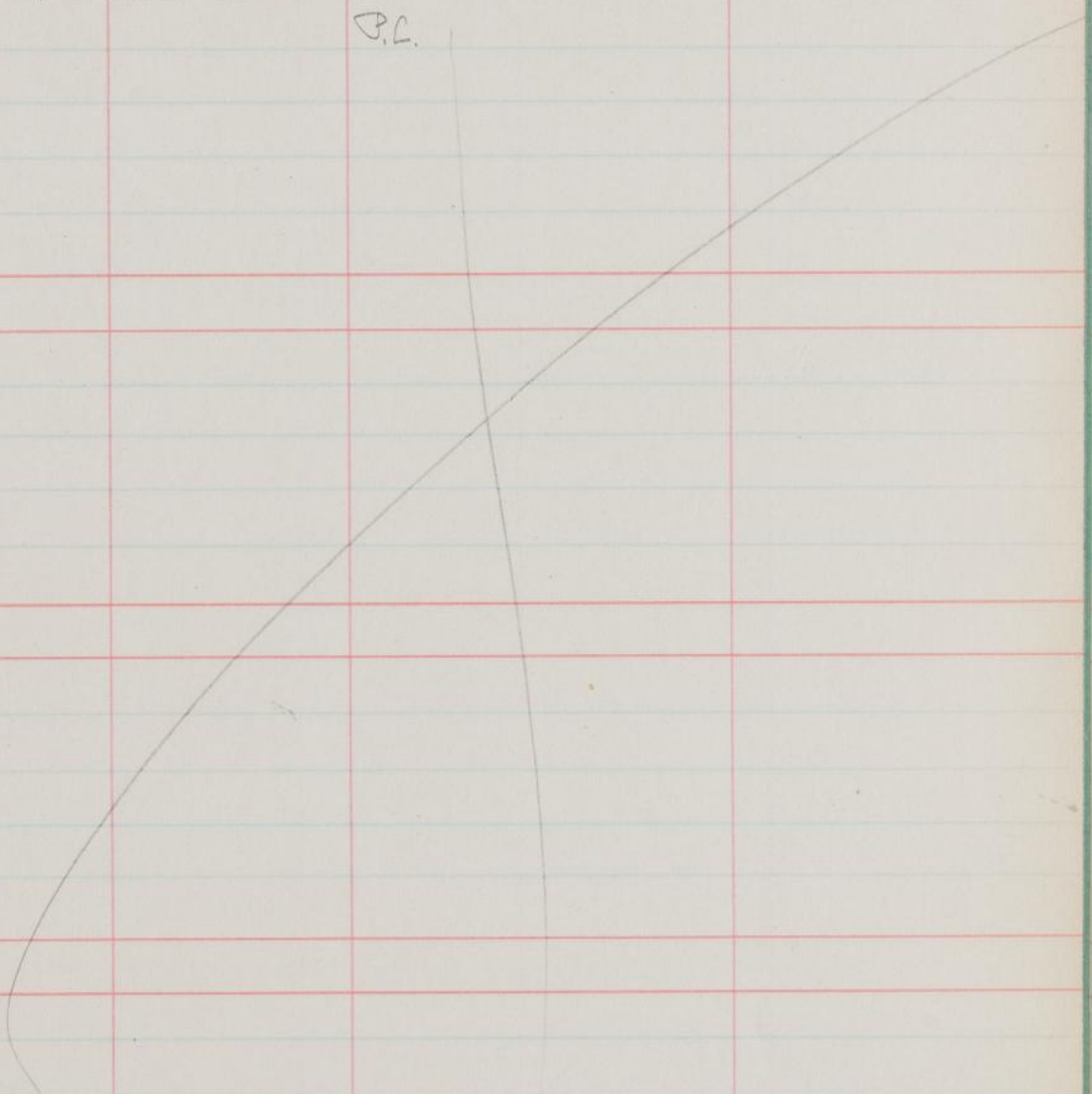
Scale

B series 49-

B45557 F3

B.L.

sc.1 sc.2



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Thursday January 6, 1916

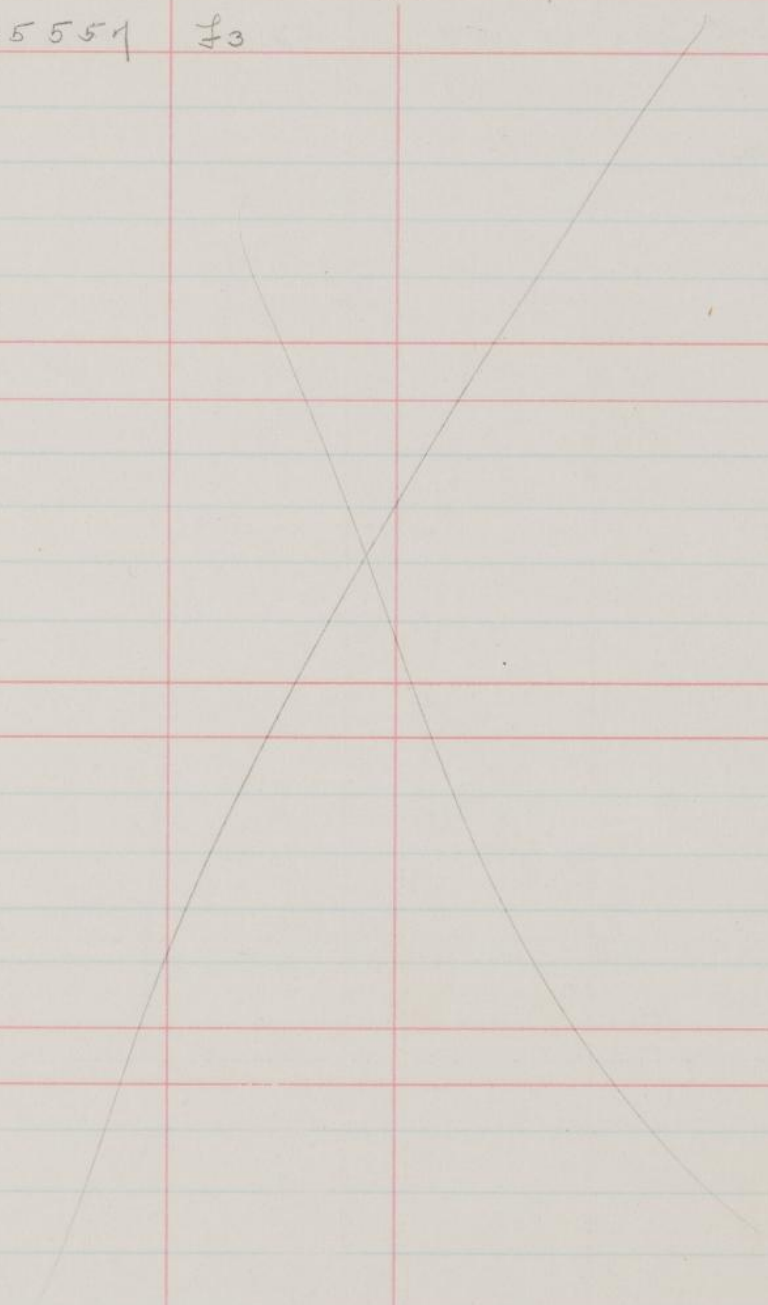
Scale

B Series 49.

B 45551 F3

RC 2

27
28
29
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31



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Thursday January 6-1916

Scale

B Series 49-

B 45557 ~~1831.~~ Diffr Im.

	g		h	
	sc.1	sc.2	sc.1	sc.2
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

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Thursday January 6-1916

Scale

B Series 49 -

B 45558 183K.

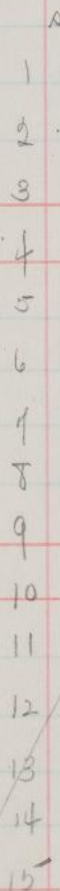
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Thursday January 6, 1916 -

Scale B Series 49 -

B 45559 83



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Saturday January 8, 1916

Scale M

B Series 58

B 45660 C 12

		sc.1	sc.2	sc.2	Diff		sc.2	Diff
	1	B.			.		8.1 elong.	− 1.50
	2	B			.		8.4	− 1.41
	3	B.			.		8.1	− 1.42
	4	3.8 3.6			3.76		9.2	− 1.64
	5	B.			.		9.3	− 1.46
	6	4.8 4.6	B.		3.42		9.8	− 1.58
near edge.	8	t.f.	.		.		9.8	− 1.20
	9	5.3 5.1	5.21	5.25	1 0 3.76		n.s.	
	11	5.8 5.6	5.7	5.75	0 1 3.56			
	12	5.9 5.7	5.8	5.85	1 0 3.76			
	14	6.4 6.2	6.4	6.40	0 0 3.51			
	16	6.9 6.7	6.8	6.85	1 0 3.53			
	17		7.4			3.25		
	17a		7.6	7.4	7.50	1 1 3.58		
	18		7.8	7.8	7.80	0 0 3.50		
	20		8.4	8.4	8.40	0 0 3.50		
	21		8.6	8.6	8.60	0 0 3.63		
	21.2		8.9	8.9	8.90	0 0 3.75		
	23		9.3	9.4	9.35	1 0 3.66		
	24		9.8	9.8	9.80	0 0 3.64		
	26		10.0	9.9	9.95	0 1 3.71		
	27		f.	f.	.	.		
	29		n.c.		.	.		

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Saturday January 8, 1916

Scale B Series 58

	B 45660		C 12		Diffr. I mv.
	g		h		
	sc. 1	sc 2	sc 1	sc 2	Diff.
1	5.4 5.21	5.55 2½	5.7 5.5		1.05
2	6.3 6.1	6.30 00	6.3 6.1		0.69
3	·		6.8 6.6		0.48
4	·		7.0 6.8		0.56
5	t.f.			7.4	0.44
6	t.f.			7.8	0.42
8	t.f.			t.f.	·
9	t.f.			8.1	0.31
11		9.1 900 1½		8.9	031
12		9.8 9.65 2½		9.5	-0.04
14		t.		10.0	-0.09
16		n.s.		n.s.	·
17					
17a					
18					

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Saturday January 8, 1916

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Seelem

B series 58

B 45661 | 162 K | 22 25-29.5 | Alt +06

	pc.1	pc.2			Cw.	Magn	Diffr. Inm. h x g	Cw.	Magn	D.C. pc.2	Cw.	
	4.4											
1	4.2	4.4	4.40	0 0	3.64	8.04	9.5 9.18 t.p.	0.38	8.18	9.5	-1.46	8.04
	5.1											
2	4.9	5.0	5.05	1 0	3.60	8.65	8.4 nearly 3 inf.	0.30	8.70	10.0	-1.46	8.54
	6.3						9.60 L 1					
3	6.1	6.3	6.30	0 0	3.54	9.84	9.5 9.7	0.13	9.73	n.s.	,	,
	6.3						9.90 L 1					
4	6.1	6.3	6.30	0 0	3.54	9.84	9.8 10.0	0.10	10.00			
	6.9											
5	6.7	6.8	6.85	1 0	3.53	10.38	? ?	,	,			
6		7.6			3.56	11.15	n.s. n.s.	,	,			
7		7.7			3.55	11.25						
8		7.7			3.55	11.25						
9		7.9			3.56	11.46						
		8.35 0 L										
10		8.4 8.3			3.59	11.94						
		8.45 1 0										
11		8.5 8.4			3.69	12.04						
		9.00 L 1										
12		8.9 9.1			3.60	12.60						
		9.35 L 0										
13		9.3 9.4			3.62	12.97						
		10.00 0 0										
14		10.0 10.0			3.66	13.66						
15		? ?			,	,						

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Scale M

B Series 58

B 456621 | 186 K | 22 45 - 449 | Alt +02

Diffr. Im. | DC.

	sc.1	sc 2		Cu.	Magn	g h	Cu.		sc 2
1	42 4.0	4.1	415 0 1	3.65	7.80	7.2 t.h.	0.50	7.70	8.9 – 145 7.745
2	44 4.2	4.5	445 0 1	3.64	8.09	7.5 t.h.	0.44	7.94	9.2 – 145 7.75
3	56 5.4	5.5	555 0 1	3.56	9.13	8.4 t.h.	0.30	8.70	n.s. , .
4	58 5.6	5.1	575 0 1	3.57	9.32	8.8 t.h.	0.22	9.02	n.s , .
5	6.1 5.9	6.3	620 1 1	3.54	9.74	935 0 1 9.4 9.3	0.16	9.51	
6	7.1 6.9	7.1	710 0 0	3.54	10.64	10.1 t.	0.08	10.18	
7		7.2		3.54	10.74	n.s. n.s. , .			
8		7.7		3.56	11.26				
9		7.9		3.56	11.46				
10		8.1		3.58	11.68				
11		8.8	8.1 8.75 0 1	3.59	12.34				
12		8.9	8.8 8.88 1 0	3.60	12.45				
13		9.0	8.9 8.95 0 1	3.60	12.55				
14		9.5	9.4 9.45 1 0	3.62	13.07				
15		10.1	10.1 10.10 0 0	3.67	13.77				

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Saturday January 8. 1916

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Scale m

B Series 58.

B 45664 | 163 K | 23 23 - 30.0 | Alt + 06

Diffr. Inn. | P.C.

	sec.1	sec.2		Cu.	Magn	g sec.2	h sec.2				sec.2
	50										
1	4.8	5.2	5.10 ∠ 1	3.60	8.70	8.7	8.6	8.65	10	0.25	8.90
2	6.1 5.9	6.1	6.10 00	3.55	9.65	9.5	9.4	9.45	10	0.18	9.60
3	6.7 6.5	6.6	6.65 10	3.52	10.17	1	1	.	.	.	.
4	6.7 6.5	6.5	6.60 1 1	3.52	10.12	1	.	.	.	.	.
5		7.4		3.54	10.94						
6		7.5		3.55	11.05						
7		7.8		3.56	11.36						
8		8.1		3.58	11.68						
9		8.2		3.59	11.79						
10		8.5		3.59	12.09						
		8.70 00									
11		8.7 8.7		3.60	12.30						
		8.80 00									
12		8.8 8.8		3.60	12.40						
		9.15 ∠ 0									
13		9.1 9.2		3.61	12.76						
		9.35 0 ∠									
14		9.4 9.3		3.62	12.97						
		9.70 2 2									
15		9.5 9.9		3.64	13.34						

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Saturday January 8, 1916

Scale M

B Series 58

B 45665 C 12 D 3 + 15°

		rc.1	rc.2		Diff	Diff Inv. rc.2	rc.2		Diff	P.C. rc.2	Diff
1	B.				.	5.6 ~~6.1~~	6.1	585 2 3	0.75	1.9	– 1.30
2	B				.	6.1	6.3	620 1 1	079	8.2	– 1.21
3	B.				.	.	.	.	,	8.4	– 1.12
4	B.				.	.	.	.	,	9.1	– 1.54
5	4.1 3.9	B.			3.74	7.1	7.1	7.10 0 0	0.74	9.3	– 1.46
6	B.	4.6			3.62	.	.	.	,	9.7	– 1.48
near edge. 8	B.	.			,	.	.	.	,	9.9	– 1.30
9	t.f.	.			,	t.f.	8.7		0.31	m.s.	,
11	5.7 5.5	5.1	5.70 0 0		3.61	t.f.	9.1		0.21		
12	5.9 5.1	5.8	5.85 1 0		3.76	9.9	9.3	9.60 3 3	001		
14	6.3 6.1	6.4	6.35 ⊥ 0		3.56	~~t.f.~~	10.0		–.009		
16	7.0 6.8	7.1	7.05 0 1		3.33	m.s.	m.s.		.		
17		7.10 0 0 7.1	7.1		3.55						
17a		7.30 ⊥ 1 7.2	7.4		3.78						
18		7.75 ⊥ 0 7.7	7.8		3.55						
20		8.30 0 0 8.3	8.3		3.60						
21		8.50 0 0 8.5	8.5		3.73						
21a		8.80 0 0 8.8	8.8		3.85						
23		9.35 ⊥ 0 9.3	9.4		3.66						
24		9.70 ⊥ 1 9.6	9.8		3.74						
26		10.00 0 0 10.0	10.0		3.66						
27		t.			.						
29											

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Selem

B Series 58

B 4566-7 ~~C T O~~ 200K ~~Diffr Inv.~~ Alt - 30 O 22-75

			sc.1	sc.2		Cw.	Magn	Diffr. Inv. g h	Cw		G.C. Sc.2
1	1	5.3	5.1	5.5	5.40 ⊥ 1	3.58	8.98	t.h. 8.7	0.24	8.94	n.s.
2	2	6.1 5.9 trace	6.3		6.20 ⊥ 1	3.55	9.75	9.50 00 9.5 9.5	0.15	9.65	n.s.
3	3	6.4 6.2	6.5		6.45 0 1	3.53	9.98	9.85 10 9.9 9.8	0.09	9.94	
4	4	7.1 6.9	7.1		7.10 0 0	3.54	10.64	7 7	.	.	
5	5		7.8			3.56	11.36				
6	6		7.8			3.56	11.36				
7	7 8		8.3			3.58	11.88				
8	9		8.4			3.58	11.98				
9	10 11		8.4			3.58	11.98				
10	12		8.8			3.60	12.40				
11	13 14		8.55 0 1 8.8 8.9			3.60	12.45				
12	16		9.25 1 0 9.3 9.2			3.61	12.86				
13	17		9.45 0 1 9.4 9.5			3.63	13.08				
14	18a		9.65 0 1 9.6 9.7			3.64	13.29				
15	18		10.00 00 10.0 10.0			3.67	13.67				
	20										
	21										
	21a										

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Scale m. B Series 58

B 45668 140 K. 0 02-29.6 Alt +06

		sc.1	sc.2		Cw.	Magn	Diffr. Inv. sc.2	sc.2	Cw.		P.C. sc.2	Cw.
Inv elong.	1	tf.	.		.	.	tf	6.21	0.78	6.98	8.1 – 1.42	6.68
" "	2	tf.	.		.	.	tf.	7.5	0.33	7.83	9.2 – 1.45	7.75
	3	3.8 (40)	B.		3.66	7.66	7.60 00 1.6	1.6	0.31	7.91	9.3 – 1.45	7.85
	4	6.1 (63)	6.1	6.20	1	3.54	9.80 00 9.8	9.8	0.10	9.90	n.s. .	.
	5		1.21			3.53	n.s.	n.s.	.	.		
	6		1.6			3.55	11.15					
	7		8.1			3.58	11.68					
	8		8.1			3.58	11.68					
	9		8.3			3.58	11.88					
	10		8.8	8.1	8.75	01	3.60	12.35				
	11		8.8	8.8	8.80	00	3.60	12.40				
	12		9.1	8.9	9.00	1	3.60	12.60				
	13		9.3	9.3	9.30	00	3.62	12.92				
	14		9.8	9.7	9.75	01	3.64	13.39				
	15		9.9	9.9	9.90	00	3.65	13.55				

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Series

B series 58

B 45669 164K 0 39 - 44 6 Alt 402

Diffr Inv.

	sc.1	sc.2		Cu.	Magn	9 hr	Cu.		sc.2
1	4.7 (49)	5.2	5.05 ⊥ 2	3.60	8.65	8.45 o 1 / 8.8 8.7	0.24	8.99	9.7 − 1.46 8.24
2	5.2 (5.4)	5.5	5.45 o 1	3.58	9.03	9.00 1 1 / 9.1 8.9	0.20	9.20	7. .
3	5.2 (5.4)	5.5	5.45 0 1	3.58	9.03	9.40 1 1 / 9.5 9.3	0.16	9.56	7. .
4	6.2 (64)	6.5	6.45 o 1	3.53	9.98	7 7.	.	.	
5		7.3		3.54	10.84	n.s n.s.	.	.	
6		7.7		3.56	11.26				
7		7.6		3.55	11.15				
8		8.1		3.58	11.68				
9		8.4		3.59	11.99				
10		8.5 (8.55 ⊥ 0)	8.6	3.59	12.14				
11		8.8 (8.85 o 1)	8.9	3.60	12.45				
12		9.2 (9.20 o o)	9.2	3.61	12.81				
13		9.4 (9.40 o o)	9.4	3.62	13.02				
14		9.9 (9.95 ⊥ 0)	10.0	3.66	13.61				
15		7. 7.		.	.				

Plate 7 appears slightly brighter than plate 6.
All images on this plate are peculiar.
Difficult to compare with scale.

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Saturday January 8, 1916

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Scale m

B Series 58

B 45670 F1 + 15° Alt — 47

	sc.1			Cu.		sc.2	Cu.	
1	.			.		8.7	- 144	7.26
2	.			.		t.f.	.	.
3	.			.		8.8	- 145	7.35
4	.			.		9.1	- 145	7.65
5	t.f.			.		9.1	- 145	7.65
6	3.9 3.7			3.68	7.58	9.2	- 145	7.75
7	t.f.			.	.	9.8	- 146	8.34
8	4.9 4.7	4.7	480 1 1	3.61	8.41	9.9	- 146	8.44
9	4.7 4.5	t.f.		3.62	8.32	10.0	- 146	8.54
near edge	10	t.f.	4.6?	3.63	8.23?			
11	5.0 4.8	5.1	5.05 0 1	3.60	8.65			
12	5.7 5.5	5.7	5.70 0 0	3.58	9.28			
13	5.5 5.3	5.6	5.55 1 0	3.58	9.13			
14	5.1 4.9	5.2	5.15 1 0	3.59	8.74			
15	6.3 6.1	6.3	6.30 0 0	3.54	9.84			
16	6.1 5.9	6.1	6.10 0 0	3.56	9.66			
17	6.7 6.5	6.5	6.60 1 1	3.53	10.13			
18	7.1 6.9	7.1	7.10 0 0	3.54	10.64			
19	7.1 6.9	7.2	7.15 1 0	3.54	10.69			
20	7.0 6.8	7.1	7.05 0 1	3.53	10.58			
21		7.5		3.54	11.04			
22		7.4		3.54	10.94			
23		7.8		3.57	11.37			
24		8.1		3.58	11.68			
25		8.4		3.58	11.98			
26		8.3		3.58	11.88			

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Saturday January 8, 1916

Scale 8m

B Series 58

B 4567 0 cont. F1 4-15°

	sc.1	sc.2		Cu.	
27	8.4	8.4	840	00 3.58	11.98
28	8.8	8.8	880	00 3.60	12.40
29	9.1	9.1	910	00 3.61	12.71
30	9.4	9.4	940	00 3.62	13.02
31	9.5	9.5	950	00 3.64	13.14
32	9.8	9.7	975	0 1 3.64	13.39
33	9.9	9.7	980	1 1 3.65	13.45
34	n.s.	n.s.	,	,	,

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Scale R M

B Series 58

	B 4567 0		F 1		Diffr. Im.	
	g		h			
	sc. 1	sc. 2	sc. 1	sc. 2		
1	.					
far from centre 2	.		.			
" " 3	.		.			
4	.		t.p.			
" " 5	.		.			
" " 6	.		.			
" " 7	.		.			
" " 8	.		.			
" " 9	.		.			
" " " 10	.		.			
11	.		.			
12	10.0	9.85	9.7		0.11	9.81
13	8.8		t.p.		0.22	9.02
14	8.8	8.70 1 1	8.6		0.23	8.94
15	9.7	9.60 1 1	9.5		0.14	9.74
16	10.0	9.95 0 1	9.9		0.09	10.04
17	7		10.0		0.09	10.09
18	ns		t.			
19						
20						

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Saturday January 8, 1916

Scale m

B Series 58

B45671 C1-

	Ac.1			Diff	Ac.2	Diff.
	3.5					
1	3.3			3.68	8.1	— 1.52
2	B.			.	8.1	— 1.31
3	B			.	8.9	— 1.40
4	B.	t.h.		.	9.5	— 1.54
5	t.h.	t.h.		.	10.0	— 1.73
7a	t.h.	t.h.		.		
	5.8					
9	5.6	5.1	5.75	0 1	3.53	
	6.1					
11	5.9	6.1	6.10	0 0	3.59	
	6.5					
12	6.3	6.5	6.50	0 0	3.52	
14		1.2			3.42	
		7.65	0 1			
15		7.6	7.1		3.39	
		7.70	0 0			
16		7.1	7.1		3.50	
		8.10	0 0			
17		8.1	8.1		3.40	
		8.40	0 0			
18		8.4	8.4		3.54	
		8.65	1 0			
19		8.1	8.6		3.56	
		9.15	0 1			
20		9.2	9.1		3.47	
		9.35	0 1			
21		9.4	9.3		3.54	
		10.00	0 0			
24		10.0	10.0		3.58	
		10.10	0 0			
25		10.1	10.1		3.66	
26						
27						
28						
29						
30						
31						
13a	6.6					
18a		8.4				

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Saturday January 8, 1916

Salem

B Series 58

	B 45671			C 1		Diffr. Inn.
	g		h			
	sc. 1	sc. 2	sc. 1	sc. 2		Diff
1	t.f.		6.7 6.5			0.48
2	6.8 6.6	6.70 1 1	6.6 6.4			0.69
3	.			7.1		0.40
4	.			.		.
5	.			8.1		0.23
7a	.			.		
9		9.2 9.05 2 1		8.9		0.23
11		9.6 9.45 2 1		9.3		0.24
12		9.8 9.80 0 0		9.8		0.22
14		n.s.		n.s.		.
15						
16						
17						
18						
19						
20						

1: ~~30~~ 40

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Monday January 10-1916

Scale m

B series 83.

11:50 B 45961- C1 1+15°

	Sc. 1				Diff.	O.C. Sc. 2 Diff
1	B.				.	8.5 - 132
2	3.8 3.6				3.59	8.7 - 1.31
3	3.8 3.6				3.70	w.s. 8.2 8.8 - 130
4	tf.	t.f.			.	9.4 - 144
5	5.3 5.1	5.1	5.20	1 1	3.13	9.6 - 1.27
9	6.0 5.8	5.8	5.90	1 1	3.38	n.s. . .
11	6.3 5.6	w.s. 6.2	6.35	1 2	3.34	
12	6.7 6.5	6.6	6.65	1 0	3.37	
14		7.4			3.22	
15		7.7			3.34	
16		7.8			3.40	
14		8.1			3.40	
18		8.50 0 0 8.5	8.5		3.44	
19		8.55 0 1 8.6	8.5		3.66	
20		8.85 0 1 8.8	8.9		3.77	
21		9.20 0 0 9.21	9.21		3.69	
24		9.90 1 1 9.8	10.0		3.68	
25		10.00 0 0 10.0	10.0		3.76	
26		10.10 0 0 10.1	10.1		4.02	
27		n.s.	n.s.		.	
7a	tf. 7.1				.	9.9 - 1.04
13a	6.9				3.34	
21a		9.7				

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Monday January 10-1916.

Scale M B Series 83-

B 45961 C1 Diffr. Im.

h

		sc.1 sc.2	sc.1	sc.2	Diff
	1	t.f.		7.2	-0.02
	2	7.2 from	7.20 0 0	7.2	0.19
	3	7.3 from	7.35 1 0	7.4	0.15
	4	t.f.		t.f.	.
	5	t.f.		8.2	0.13
omit.	6			.	.
"	7			.	.
"	8			.	.
	9	9.1	9.10 0 0	9.1	0.18
"	10			.	.
	11	9.3	9.25 1 0	9.2	0.44
	12	9.6	9.55 0 1	9.5	0.47
	14	f.		f	.
	15			n.s.	.
	16				.
	1a	t.f.		t.f.	.
	13a			10.0	0.44

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Series A Series 88.

B 4596.2 E1- 1 20 -45° Oct +02

	sc.1	sc.2		Cw.		sc.2	Cw.	Magn.	
							O.C.		
1	B.			.	.	8.6	0.67 - 1.33	9.27	7.27
2	B			.	.	8.8	0.67 - 1.33	9.47	7.47
3	3.6 (2.8)			3.55	7.35	8.1	0.67 - 1.34	9.37	7.36
4	B.			.	.	8.9	0.66 - 1.34	9.56	7.56
5	B.	B.		.	.	8.9	0.66 - 1.34	9.56	7.56
6	4.1 (4.3)	4.1 (4.20)	1 2	3.46	7.66	9.23	0.67 - 1.33	9.87	7.87
7	t.f.	t.f.		.	.	9.5	0.68 - 1.32	10.18	8.18
8	5.1 (5.3)	t.f.		3.32	8.62	Scratched.	.	.	.
9	4.9 (5.1)	5.2 from	5.15 1 0	3.34	8.49	9.8	0.69 - 1.31	10.49	8.49
10	4.1 (4.3)	B.		3.45	7.75	9.6	0.68 - 1.32	10.28	8.28
11	5.9 (6.1)	6.1	6.10 0 0	3.28	9.38	N.S.	.	.	
12	5.21 (5.4)	5.5	5.45 0 1	3.31	8.76				
13	6.4 (6.6)	6.4	6.50 1 1	3.28	9.78				
14	6.5 (6.7)	6.8	6.75 1 0	3.30	10.05				
15	6.7 (6.9)	6.9	6.90 0 0	3.30	10.20				
16	6.9 (7.1)	7.1	7.10 0 0	3.31	10.41				
17		7.5		3.35	10.85				
18		7.8		3.40	11.20				
19		8.2		3.46	11.66				
20		8.3		3.49	11.79				
21		8.3		3.49	11.79				
22		8.6	8.6 8.60 0 0	3.54	12.14				
23		8.6	8.7 8.65 0 1	3.55	12.20				
24		8.8	8.9 8.85 0 1	3.59	12.44				
25		9.1	9.1 9.10 0 0	3.64	12.74				
26		9.1	9.1 9.10 0 0	3.64	12.74				

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1915phae.proj.107720

Monday January 10, 1916

Scale M

B Series 83 -

B45962 E1 cont=

	sc2	sc2		Cu.	Magn
27	9.4	9.4	94000	3.71	13.11
28	10.0	10.0	10,00 00	3.85	13.85
29	10.0	10.0 ??	10,00 00	3.85	13.85 ?
30	〃	〃	〃	〃	〃
31	m.s.	m.s.	〃	〃	〃

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Monday, January 10, 1916—

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Scale M

B Series 83—

B 4596 2— E 1 Diffr. Im.

	g sc 1	g sc 2	h sc 1	h sc 2	Cu		Magn
1	.		6.7 6.5		3.99	0.01	6.71
2	.		.		.	.	.
3	.			7.1	3.31	0.04	7.14
4	7.4				3.34	0.08	7.48
5	7.4			t.fr.	3.34	0.08	7.48
6	7.6	7.75 2/1		7.9	3.39	0.11	7.86
7	.			.	.	.	.
8	.			.	.	.	.
9	t.fr.			t.fr.	.	.	.
10	8.1	8.15 1.0		8.2	3.45	0.14	8.29
11	9.1	9.10 0.0		9.1	3.64	0.29	9.39
12	8.1	8.65 1.0		8.6	3.55	0.21	8.86
13	9.5	9.45 1.0		9.4	3.72	0.34	9.79
14	9.5	9.60 1.1		9.7	3.77	0.39	9.99
15	10.0	9.95 0.1		9.9	3.84	0.45	10.40
16	t.			10.0	3.85	0.46	10.46
17				t.	.	.	.
18							
19							
20							

1st floor.

" "

" "

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1915phae.proj.107220

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Scale m

B Series 83.

B 4596.3 142 K

Alt +06

	Sc.1	Sc.2		Cu.	Magn.	g	h	Diffe. Inn. Cu.		B.C. Sc.2
1	4.9 (5.1)	5.2	5.15	1 0	3.34	8.49	t.p.	t.p.		9.1 − 1.31 8.39
2	5.21 (5.4)	5.5	5.45	0 1	3.31	8.76	t.p.	8.4	0.19	8.59 9.1 parity sift?
3	5.1 (5.9)	5.8	5.85	1 0	3.29	9.14	t.p.	8.6	0.21	8.81 10.1 − 1.29 8.81
4	6.3 (6.5)	6.6	6.55	1 0	3.28	9.83	t.p.	9.3	0.22 (31)	9.61
5	6.8 (7.0)	7.1	7.05	0 1	3.31	10.36	t.	10.0	0.47	10.47
6		7.4			3.34	10.74				
7		7.8	7.7	7.75	0 1	3.40	11.15			
8		7.8	7.8	7.80	0 0	3.40	11.20			
9		8.1				3.44	11.54			
10		8.3				3.49	11.79			
11		8.4	8.4	8.40	0 0	3.50	11.90			
12		8.9	9.1	9.00	1 1	3.63	12.63			
13		9.2	9.2	9.20	0 0	3.67	12.87			
14		9.5	9.5	9.50	0 0	3.73	13.23			
15		9.7	9.8	9.75	1 0	3.80	13.55			

Seq. not in centre of plate.

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Scale M

B Series 83-

B 45964 118 R 2 16 - 14.8 Alt +08

Diff Im. P.C.

	sc.1	sc.2		Cu.	Magn	g sc.2	h sc.2	Cu.		sc.2	Cu.	
	42											
1	4.0	B.		3.46	7.66	th.	6.9	0.03	6.93	8.8	-1.33	7.47
	40											
2	3.8	4.0	400 0 0	3.50	7.50	th.	7.2	0.05	7.25	8.7	-1.33	7.37
	49											
3	4.7	4.8	485 1 0	3.37	8.22	th.	7.6	0.10	7.70	9.3	-1.32	7.98
	56					845 0 1						
4	5.3	5.6	555 1 0	3.30	8.85	8.4	8.5	0.19	8.64	10.0	-1.30	8.70
	59					865 1 0						
5	5.7	5.7	580 1 1	3.29	9.09	8.7	8.6	0.21	8.85	m.s	.	.
	67											
6	6.5	6.7	670 0 0	3.29	9.99	th.	th.	.	.			
	68											
7	6.6	6.9	685 0 1	3.30	10.15	th.	9.9	0.45	10.35			
	69											
8	6.7	6.9	690 0 0	3.30	10.20		th.	.	.			
9		7.5	7.6 755 1 0	3.36	10.91							
10		7.8	7.9 785 0 1	3.40	11.25							
11		8.5	8.9 870 2 2	3.56	12.26							
12		9.1	8.9 900 1 1	3.63	12.63							
13		9.6	9.8 970 2 1	3.79	13.49							
14		9.8	9.9 985 0 1	3.81	13.66							
15		th.	th. .	.	.							

Images poor.

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Scalem

B Series 83-

B 45965 166K 2 37-44.8 Alt +.04

	sc.1	sc.2		Cw.	Magw.	Diffr Inm. sc.2	sc.2	Cw.		C.C sc.2
1	4.3 4.1	B.		345	7.75	sup	sup.			8.8 - 1.33 7.47
2	5.7 5.6	5.1	5.70 00	330	9.00	t.p.	8.8	0.24	9.04	4. , ,
3	6.3 6.1	6.1	6.20 1 1	327	9.47	9.30 00 9.3	9.3	0.32	9.62	n.s. , ,
4	6.5 6.3	6.5	6.50 00	328	9.78	t.p.	9.5	0.36	9.86	
5		7.5		336	10.86	n.s.	n.s.	,	,	
6		7.8		340	11.20					
7		7.9		341	11.31					
8		7.8		340	11.20					
9		8.2	8.3 8.25 0 1	348	11.73					
10		8.1	8.2 8.15 1 0	345	11.60					
11		8.5	8.4 8.45 1 0	351	11.96					
12		8.5	8.4 8.45 1 0	351	11.96					
13		8.8	8.7 8.75 0 1	357	12.32					
14		9.3	9.1 9.20 1 1	368	12.88					
15		9.9	9.9 9.90 0 0	383	13.73					

1:20

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Friday January 14, 1916

Sheet No 11

Seeing 1 — B Series 49 - 2nd half.

B45554 C10- 19 +15°

				Diff.	PC.
	ec.				sc/sc?
1	B.			.	8.1 — 1.26
2	B			.	8.1 — 1.29
3	B			.	8.4 — 1.06
4	B	B.		.	8.1 — 0.86
6	4.3 4.1	4.3 B.	4.30 0 0	4.20	9.9 — 1.40
7	3.9 3.7	4.1	4.00 L 1	4.29	9.4 — 1.11
8	5.3 5.1	5.2	5.25 1 0	3.85	n.s. .
9	5.3 5.1	5.5	5.40 L 1	4.00	
10	5.8 5.6	5.7	5.75 0 1	3.94	
11	6.4 6.2	6.1	6.25 2 1	3.79	
12	6.8 6.6	6.9	6.85 0 1	3.64	
13	7.1 6.9	7.1	7.10 0 0	3.63	
15		7.70 0 0 7.7	7.7	3.47	
16		8.00 L 1 7.9	8.1	3.52	
17		8.50 0 0 8.5	8.5	3.40	
18		.	.	.	
19		9.20 1 L 9.3	9.1	3.54	
20		9.4 9.35 0 1 8.1 w.s.	9.3	3.52	
21		9.80 0 0 9.8	9.8	3.68	
22		+	+		
24		n.s.	n.s.	,	
25					
26					
27		n.s.			
28					
29		n.s.			
30					

too close to diffr. Imm.

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Scale M

B Series 49-

B45554 cont. C10 19+15-

sec. 2

31 n3

b 8.8

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Friday January 14, 1916.

Scale M

B Series 49.

B 4555 4 C 10 Diffr. Imn.

	g sc.1	g sc.2	h sc.1	h sc.2	Diff
			6.5		
1	t.p		6.3		0.34
			7.0		
2			6.8		0.41
			6.7		
3			6.5		0.64
4				7.2	0.64
6	t.p			8.1	0.40
7				7.8	0.49
8				8.4	0.70
9				8.8	0.60
10	t.p.			9.3	0.39
11	9.9	9.80	12	9.7	0.24
12	t			t.	.
13					
15					
16					
17					
18					
19					
20					

"g" images far elongated to compare with scale.

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Scale m

B series 49.

	*B45555	*135K	19 14 - 149°
	g	h	
	sc.1 sc.2	sc.1 sc.2	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

* "too poor. Omit." H.S.L.

Region off centre. - All image much elongated.

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Scale m

B Series 49-

B 45556 DKS 19 10 00 Alt +06

	sc.1.	sc.2			Cu.	Magn	Diffr. Inn. sc.2	sc.2	Cu.		P.C. sc.2
1	5.3 5.1	5.2	5.25	1 0	3.96	9.21	t.f.	8.7	0.49	9.19	n.s.
2	6.1 5.9	6.1	6.10	0 0	3.79	9.89	t.f.	9.3	0.48	9.78	
3	6.9 6.7	6.9	6.90	0 0	3.64	10.54	t.f.	10.0	0.48	10.48	
4		7.3			3.57	10.87	t.f.	n.s.	"	"	
5		7.8	7.7	7.75	0 1	3.50	11.25				
6		8.2	8.2	8.20	0 0	3.46	11.66				
7		8.4	8.4	8.40	0 0	3.45	11.85				
8		9.3	9.3	9.30	0 0	3.53	12.83				
9		9.6	9.4	9.50	1 1	3.57	13.07				
10		9.9	9.9	9.90	0 0	3.71	13.61				
11		7	"	"		"					
12		n.s.	"	"		"					
13											
14											
15											

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Scale m

B series 49.

B 45557 | 13 | 20 - 75° | Att -30

		sc.1	sc.2		Cw.	Magn	P.C. sc.2	Cw.	Magn
dbl.	1	.			.	.	.	.	.
near edge.	2	B			.	.	1.8	.	.
	3	B			.	.	+p.	.	.
	4	B			.	.	8.8	-1.14	7.66
	5	4.1			4.20	8.50	8.8	-1.14	7.66
	6	4.2			4.16	8.56	9.1 9.1	-1.16	7.94
	7	4.4	B		4.11	8.71	8.9 9.1	-1.15	7.85
	8	4.1	4.6	445 L 2	4.15	8.60	9.1	-1.16	7.94
	9	4.8	4.9	495 0 L	4.03	8.98	9.5	-1.19	8.31
	10	4.1	4.5	440 L 1	4.16	8.56	9.4	-1.19	8.21
	11	4.7	5.1	500 L 1	4.02	9.02	9.5	-1.19	8.31
	12	4.9	5.1	510 00	4.00	9.10	9.9	-1.20	8.70
	13	5.2	5.4	540 00	3.92	9.32	10.1	-1.20	8.90
	14	5.3	5.6	555 L 0	3.90	9.45	n.s.	.	.
	15	5.1	5.9	590 00	3.83	9.73			
	16	5.1	5.1	580 1 L	3.84	9.64			
	17	6.1	6.1	620 1 L	3.76	9.96			
	18	6.3	6.5	650 0 0	3.71	10.21			
	19	6.4	6.1	665 0 1	3.70	10.35			
	20	6.1	6.8	685 1 0	3.64	10.49			
	21	6.9	7.1	710 00	3.62	10.72			
	22		7.2		3.60	10.80			
	23		7.3		3.58	10.88			
	24		dbl.		.	.			
	25		7.7		3.51	11.21			
	26		8.1		3.46	11.56			

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Scale m. B series 49.

B 4555 | 73 cont.

	Sc. 2	Sc. 2		Cu.	Magn
	~~8.1~~				
27	7.9			3.48	11.38
	~~8.5~~				
28	8.3			3.45	11.75
	~~8.9~~				
29	8.7	8.7	870 00	3.46	12.16
	~~8.7~~				
30	8.5	8.7	860 1 1	3.46	12.06
	~~9.0~~				
31	8.8	8.7	875 01	3.46	12.21
	~~9.6~~				
32	9.4	9.3	935 01	3.54	12.89
	~~9.4~~				
33	9.2	9.3	925 01	3.52	12.77
	~~9.7~~				
34	9.5	9.4	945 10	3.55	13.00
	~~9.7~~				
35	9.5	9.4	945 10	3.55	13.00
	~~9.9~~				
36	9.7	9.7	970 00	3.64	13.34
37	10.0	9.9	995 01	3.72	13.67
38	1	1.		.	.
39	m.s.	.		.	.

seem but faintest than 10th image

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Scale m

B Series 49.

B 45557

73

Diffr dm.

	g sc.1	g sc.2	h sc.1	h sc.2	Cu.			
1			dbl.		.			
2			t.f.		.			
3	~~8.4~~		t.f. ~~8.4~~		.			
4			t.f.		.	.	.	.
5			7.2		3.59	10.79	0.53	7.73
6			7.6		3.53	11.13	0.52	8.12
7			7.5		3.54	11.04	0.53	8.03
8			t.f.		.	.	.	.
9			t.f.		.	.	.	.
dbl.? 10	.		.		.	.	.	.
11	t.f.		t.f.		.	.	.	.
12	8.2	8.25 01	8.3		3.45	11.70	0.50	8.86
13	8.4	8.40 00	8.4		3.45	11.85	0.50	8.90
14	8.1	8.10 00	8.1		3.46	12.16	0.52	9.21
15	8.1	8.10 00	8.1		3.46	12.16	0.51	9.21
16	9.1	9.00 11	8.9		3.49	12.49	0.51	9.51
17	9.1	9.15 10	9.2		3.51	12.66	0.52	9.67
18	9.3	9.30 00	9.3		3.53	12.83	0.52	9.82
19	9.8	9.75 01	9.7		3.66	13.41	0.52	10.27
20	10.0		def.?		3.74	13.74	0.52	10.52
21			7.		.	.	.	
22			7.		.	.	.	
23								
24								

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Scale 7m.

B Series 49.

B 45558 183K 19 54-44.9° Calt +02

	sc.1	sc.2		Cu.	Magn	Diffr. Imm. g sc.2	h sc.2			P.C. sc.2
1	B.	B.		.	.	t.f.	t.f.	.	.	1.3 . .
2	B.	B.		.	.	t.f.	1.4 860 00	0.54	7.94	8.1 – 1.13 7.57
3	53 5.1	5.1	5.50	2 2	3.91	9.41	8.6	8.6 960 11	0.50	9.10 n.g. . .
4	65 6.3	6.1	6.60	1 1	3.70	10.30	9.5	9.1	0.48	10.08
5		1.5			3.54	11.04	n.s.	n.s.	.	.
6		1.5			3.54	11.04				
7		1.8			3.51	11.31				
8		8.1			3.46	11.56				
9		8.21			3.46	11.66				
10		8.5			3.45	11.95				
11		8.6	8.6	860 00	3.45	12.05				
12		8.9	8.9	890 00	3.48	12.38				
13		9.1	9.1	9.10 00	3.50	12.60				
14		9.5	9.4	9.45 10	3.55	13.00				
15		9.9	10.0	9.95 10	3.73	13.68				
16										
17										
18										
19										

"g" images elongated.

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Scale m. — B series 49 -

B 45559 - E 8 - 20 - 45° Alt +02

					C.C.			
	sc. 1			Cw.	Magn.	sc 2		
1	.			.	.	8.8	- 1.14	7.66
2				.	.	8.1	- 1.13	7.57
3	.			.	.	8.8	- 1.14	7.66
4	.			.	.	sup?	.	.
5	4.3 4.1			4.19	8.49	sup.	.	.
6	5.0 4.8			4.03	9.03	9.4	- 1.18	8.22
7	3.9 3.7	B.		4.30	8.20	8.8	- 1.14	7.66
8	4.7 4.5	4.9	4.80 1 1	4.06	8.86	9.1	- 1.16	7.94
9	4.6 4.4	4.9	4.75 2 1	4.08	8.83	9.21	- 1.17	8.03
dbl.	10 5.1 6.3 4.9 6.1	5.1 6.2				9.8 n.s.		
11	5.3 5.1	5.2	5.25 1 0	3.96	9.21	9.8	- 1.20	8.60
12	5.3 5.1	5.2	5.25 1 0	3.96	9.21			
13	5.2 5.0	5.2	5.20 0 0	3.97	9.17			
14	5.8 5.6	5.7	5.75 0 1	3.85	9.60	n.s.		
15	6.1 5.9	6.1	6.10 0 0	3.79	9.89			
16	6.1 5.9	5.9	6.00 1 1	3.81	9.81	n.s.		
17	6.3 6.1	6.2	6.25 1 0	3.76	10.01			
18	6.3 6.1	6.1	6.20 1 1	3.76	9.96			
19	7.0 6.8	6.9	6.95 0 1	3.63	10.58			
20	7.1 6.9	7.1	7.10 0 0	3.62	10.72			
21	7.1 6.9	~~6.9~~ 7.1	7.10 0 0	3.62	10.72			
22		7.5		3.54	11.04			
23		7.7		3.51	11.21			
24		7.8		3.50	11.30			
25		7.9		3.48	11.38			
26		8 9.4		3.45	11.85			

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Friday January 14, 1916 -

Scale M

B series 49 -

B 4 5 5 5 9 E 8

	sc.2	sc.7	Cw.	Magw.
21	8.5	8.6	3.46	12.01
28	8.5	8.6	3.46	12.01
29	8.1	8.1	346	12.16
30	8.9	8.8	3.48	12.33
31	8.8	8.1	3.46	1221
32	8.9	8.9	3.48	12.38
33	8.9	8.8	3.47	12.32
34	9.4	9.3	353	12.88
35	9.8	9.6	364	13.34
36	9.8	9.1	366	13.41
37	10.0	10.0	374	13.74
38	ns.	ns.	.	.
39				

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1915phae.proj.10720

Friday January 14. 1916 -

Scale m. B series 49 - Copied B 27:158 -

B 45559 98 Diffr Lm.

	g sc.1	g sc.2	h sc.1	h sc.2	Cu.	Magn Cu.
1	.			t/r.	.	.
2	.			7.2	0.54	7.74
3	.			t/r.	.	.
4	.			t/r.	.	.
5				7.3[4]	0.53	7.93
6				t/r.	.	.
7				7.3	0.53	7.83
8	.			t/r.	.	.
9	.			t/r.	.	.
10	.			dbl.	.	.
11				8.1	0.51	8.61
12				8.3	0.50	8.80
13				8.3	0.50	8.80
14				8.8	0.50	9.30
15				8.7	0.50	9.20
16				8.7	0.50	9.20
17				9.1	0.51	9.61
18				9.3	0.49	9.79
19				9.5	0.48	9.98
20				9.5	0.48	9.98
21				10.0	0.48	10.48
22				10.0	0.48	10.48
23				n.e.	.	
24						
25						
26						

2:50

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1915phae.proj.10720

Friday, February 11, 1916.

Sheet No 12.

Scale 8 m

B series 85.

1/-

B 45994

~~Peter~~ C 10

19 + 15

	sc.1			Diff Sm.	Diff sc.2 g	Diff sc.2 h	Diff	P.C. Diff sc.2
1	B			.	6.8²		0.64	8.0 −.116
2	B			.	6.8		0.61	8.1 −.129
3	B.			.	6.4		0.94	8.3 −.096
4	3.8 3.6			4.04	7.2		0.64	8.1 −.086
6	B.			.	.		.	~~def?~~ dbl.
7	4.0 3.8	B.		4.29	7.5		0.79	9.4 +..
8	5.1 5.2 +.1	5.2	5.15 1.0	3.95	8.4	8.4	0.60	7.4 ~~7.4~~ −0.30 *
9	5.5 5.3	5.5	5.50 0.0	3.90	8.1		0.70	9.9 −0.50
10	5.8 5.6	5.6	5.70 1.1	3.99	9.1		0.59	n.s. .
11	6.1 5.9	6.1	6.10 0.0	3.94	9.4		0.64	
12	6.8 6.6	6.8	6.80 0.0	3.69	10.0 9.9		0.54	
13		7.2		3.53	‡	‡	.	
15		7.5	7.50 0.0 7.5 7.70 1.1	3.67				
16		7.6	7.8 8.25 1.0	3.82				
17		8.3	8.2 8.70 1.1	3.65				
18		8.6	8.8 9.15 1.0	3.65				
19		9.1	9.2 9.35 1.0	3.59				
20		9.3	9.4 9.45 1.0	3.52				
21		9.5	9.4	4.03				
22		‡	‡	.				
24		n.s.	n.s.	.				
25		n.s.		.				
e		9.4		.				

dbl?

9.2 = wrong star.

* wrong star measured for P.C.

g image very poor.

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Friday February 11, 1916 –

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Scale m

B Series 85

B 45995 88 D0 −45° Alt +02

	sc.1	sc.2	Cu.	Magn	g sc.1	& sc.2	Cu.	Magn	sc.2	Cu.	Magn
					Diffr. Im.				R.C.		
1	B.		.	.	B.		.	.	8.6	−.103	7.57
2	B.		.	.	7.1		0.87	7.97	8.1	−.103	7.67
3	B.		.	.	7.2		0.85	8.05	9.2	−.103	8.17
4	3.5 3.3		399	7.49	6.3		1.03	7.23	8.3	−.103	7.27
5	3.7 3.5		396	7.66	7.3		0.84	8.14	surf.	.	.
6	4.5 4.3		390	8.40	th.		.	.	9.5	−.103	8.47
7	3.2 3.0		401	7.21	7.1		0.87	7.97	8.1	−.104	7.66
8	4.3 4.1		392	8.22	7.7		0.77	8.47	9.3	−.103	8.27
9	th. B.		.	.	8.9		0.74	8.64	9.4	−.103	8.37
dbl	4.7 4.0 / 5.8 5.6	4.9 4.7 / 5.8 5.8	391	8.36	8.1	8.2	0.70	8.85			
	10.58	4.445 2 8 / 5.80 0 0	384	9.64	9.2 9.4	8.9	0.58	9.63	th.	.	.
11	4.9 4.7	4.95 1 0 5.0	389	8.84	8.1		0.70	8.80	9.8	−.103	8.77
12	4.9 4.7	5.00 1 1 5.1	388	8.88	8.2		0.69	8.89	10.0	−.103	8.97
13	4.8 4.6	4.95 2 1 5.1	389	8.84	8.2		0.69	8.89	t.	.	.
14	5.3 5.1	5.20 1 1 5.1	387	9.07	8.8		0.61	9.41	m.s.	.	.
15	5.6 5.4	5.65 0 1 5.7	384	9.49	8.8		0.61	9.41	m.s.	.	.
16	5.3 5.1	5.26 1 0 5.2	386	9.11	8.6		0.63	9.43			
17	5.9 5.7	5.75 1 2 5.6	384	9.59	9.1		0.56	9.66			
18	5.8 5.6	5.85 0 1 5.9	384	9.69	9.7 9.70 00	9.7	0.50	10.20			
19	6.6 6.4	6.65 0 1 6.7	379	10.44	t.	t.	.	.			
20	6.7 6.5	6.80 1 1 6.9	378	10.58							
21	7.0 6.8	6.95 0 1 6.9	377	10.72							
22	6.9 6.7	7.00 1 1 7.1	377	10.77							
23		7.1	375	11.45							
24		7.1	375	11.45							
25		7.1	374	11.64							
26		8.2	374	11.94							

g images too faint.

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Friday February 11, 1916.

Scale m

B Series 85

B45995 cont.

	sc.1	sc.2	sc.3	Cu.	Magn
27	8.6			373	12.33
28	8.4			373	12.13
29	8.6			373	12.33
30	8.8			373	12.53
31	8.8	8.8	8.8	373	12.53
32	9.1	9.1	9.2	374	12.89
33	9.1	9.1	9.2	374	12.89
34	9.7	9.6	9.5	375	13.35
35	9.8	9.7	9.6	375	13.45
36	9.9	9.9	9.9	376	13.66
37	10.0	10.0	10.0	376	13.76
38	f	f		.	.
39	m.s.			.	.

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Scale M

B Series

B 45996 | f 3 | 20 – 15° Alt – 20

		sc.1	sc.2	Cw.	Magw	Diffn. Imn.	h	Cw.	Magw	B.C. sc.2	Cw.	
	1	dbl.		.	.	dbl.				dbl.	.	.
	2	B.		.	.	t.f.				elong.	.	.
Diffn. out of focus	3	B		.	.	.				8.8	–1.03	7.77
"	4	B		.	.	.				8.1	–1.03	7.67
	5	B		.	.	t.f.				8.9	–1.03	7.87
	6	4.3 4.1		3.92	8.22	7.3	0.84	8.04		9.5	–1.03	8.47
	7	4.3 4.1		3.92	8.22	t.f.				9.2	–1.03	8.17
"	8	t.f.		.	.	.				9.1	–1.04	8.06
"	9	t.f.	t.f.	.	.	.				9.9	–1.03	8.87
	10	4.4 4.2	4.30 1 1 4.21	3.92	8.22	7.1	0.77	8.47		9.5	–1.03	8.47
	11	4.5 4.3	4.60 1 1 4.1	3.90	8.50	.	t.f.			9.6	–1.03	8.57
	12	5.3 5.1	5.20 1 1 5.1	3.88	9.08	.	t.f.			9.9	–1.03	8.87
	13	5.4 5.2	5.45 0 1 5.5	3.84	9.29	8.65 01 8.4		0.68	9.33	f.	.	.
	14	5.3 5.1	5.40 1 1 5.5	3.85	9.25	8.6	8.1	0.62	9.27			
	15	5.9 5.7	5.80 1 1 5.1	3.84	9.64	.	8.6?	0.63 from	9.23?			
	16	5.8 5.6	5.80 0 0 5.8	3.84	9.64	.	t.f.	.	.			
	17	6.0 5.8	6.05 0 1 6.1	3.82	9.87	.	9.3	0.53	9.83			
	18	6.3 6.1	6.30 0 0 6.3	3.81	10.11	9.45 01 9.4	9.5	0.52	9.97			
	19	6.3 6.1	6.40 1 1 6.5	3.80	10.20	9.60 1 1 9.5	9.7	0.50	10.10			
	20	6.6 6.4	6.65 0 1 6.7	3.79	10.44							
	21	6.9 6.7	6.90 0 0 6.9	3.78	10.68	f.	.					
	22	6.9 6.7	7.00 1 1 7.1	3.77	10.77							
	23	6.9	7.10 0 0 7.1	3.76	10.86							
	24		dbl.	.	.							
	25		7.5	3.75	11.25							
	26		7.9	3.74	11.64							

"g images are very poor.

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Friday February 11, 1916

Scale M

B Series 85

B45996 f3 cont. 20 – 15°

	Sc 2	Cw.	Magw.
27	8.1	3.74	11.84
28	8.1	3.74	11.84
29	8.3	3.74	12.04
30	8.4	3.73	12.13
31	8.8 8.8 00 8.8	3.73	12.53
32	9.3 9.3 00 9.3	3.74	13.04
33	9.4 9.4 00 9.4	3.74	13.14
34	9.3 9.3 00 9.3	3.74	13.04
35	9.4 9.4 00 9.4	3.74	13.14
36	9.6 9.7 0 L' 9.8	3.75	13.45
37	10.0 10.0 00 10.0	3.76	13.76
38	f. f. f.	,	,
39	n.s. h.s.	,	,

Seems just fainter than 38 to the unaided eye.

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1915phae.proj.107720

Friday February 11, 1916.

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Scale m

B Series 85

B 45 997 Carte 20 −9.5 Alt + 07

Diff'l m. T.C.

g h . sc.2

th 9.3 054 984 m.s.

th 9.9 047 1037

ns. m.s. . .

	sc.1	sc.2	Cu	Magn
	6.1	6.1 000		
1	5.9	6.1	3.82	9.92
	6.6	6.70 1.1		
2	6.4	6.8	3.79	10.49
	7.1	7.1 0.0 00		
3	6.9	7.1	3.77	10.87
4		7.3	3.75	11.05
5		7.5	3.75	11.25
6		7.7	3.74	11.44
7		8.1	3.74	11.84
8		8.4	3.74	12.14
9		8.7	3.73	1243
10		8.7	3.73	12.43
		8.9 0.0 00		
11		8.9 8.9	3.73	1263
		8.75 1.0		
12		8.7 8.8	3.73	12.48
		9.00 1.1		
13		9.1 8.9	3.73	1273
		9.40 1.1		
14		9.5 9.3	3.74	1314
		9.45 1.0		
15		9.5 9.4	3.74	13.19
		9.85 1.0		
16		9.9 9.8	3.75	1360
		9.85 1.0		
17		9.8 9.9	3.75	1360

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Friday February 11, 1916.

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Scale M

B Series 85

B 4558998 Carte 21 − 2.5 Alt + 06

Diffr'l ms. P.C.

	sc.1	sc.2		Cu.	Magn	g hr sc.2	Cu.	Magn	sc.2
1	3.7 3.5	B.		397	7.67	· 7.1	0.87	7.97	8.1 − 1.03 7.67
2	5.6 5.4	5.5	5.55 0 1	384	9.39	· 8.1	0.62	9.32	n.s. ,
3	5.7 5.5	5.5	5.60 1 1	384	9.44	sup? 8.1?	0.62	9.32?	n.s. ,
4	5.8 5.6	5.5	5.65 2 1	384	9.49	· 9.2	0.55	9.75	n.s. ,
5	6.1 5.9	6.1	6.10 0 0	382	9.92	· 9.4	0.52	9.92	
6	6.0 5.8	6.3	6.15 2 1	382	9.97	· 9.9	0.50	10.40	
7	6.8 6.6	6.9	6.85 0 1	379	10.64	· 7	,	,	
8		7.40 1 1 7.5 7.3		375	11.15	ns. n.s.	,	,	
9		7.40 1 1 8.3 7.5		375	11.15				
10		7.9		374	11.64				
11		8.21		373	11.73				
12		8.21		373	11.73				
13		8.4		373	12.13				
14		8.55 2 1 8.4 8.1		373	12.28				
15		9.15 1 0 9.1 9.21		374	12.89				
16		9.45 0 1 9.4 9.5		374	13.19				
17		9.90 0 0 9.9 9.9		375	13.65				
18		9.95 0 1 10.0 9.9		376	13.71				

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1915phae.proj.10720

Friday February 11, 1916.

Sheet No 12

Scale

B Series 85

* ~~AA~~ B 45999 C11 21 +15°

	sec.1			Diff	Diff. Inv. g sec2	h sec2	Diff	P.C. sec2	Diff
	33								
1	3.1			351	·	5.5	131	7.8	-099
	36								
2	3.4			348	·	6.1 poor	098	8.1	-102
	39								
3	3.7			377	·	6.5	117	8.8	-113
	39								
4	3.1			401	·	6.1	121	9.2	-129
	44								
5	4.2	B.		390	·	7.6	070	9.9	-760 -1.44
	46								
6	4.4	4.3	445 2 1	401	·	14?	106	9.9	-144 -1.07
	48								
7	4.6	5.1 ? poor	495 2 1	388	·	8.1	073	f.	,
	53								
8	5.1	5.1	520 1 1	383	·	8.3	073		
	57								
10	5.5	5.5	560 1 1	385	·	8.9	055		
	59								
12	5.7	6.1	600 1 1	385		9.5 6	025		
	61								
14	5.9	6.1	610 0 0	387		9.	,		
	64								
15	6.2	6.5	645 0 1	395		n.s.	,		
	71								
16	6.9? n.p.	7.1	710 0 0	360					
17		7.3		372					
20		7.5	760 1 1	379					
23		8.4	83 835 0 1	351					
24		8.6	8.6 860 0 0	380					
25		8.6	8.6 860 0 0	397					
26		9.2	9.5 935 2 1	355					
27		9.2	9.3 925 0 1	389					
28		9.8	* 99 985 0 1	354					
29		f	f	,					
30		f	f	,					
31		n.s.	n.s.	,					
32									

Remeas. @ Feb. 24 1916.

P.C. sec2		
1	7.9	23 8.5 sec2
2	8.2	24 8.6
3	8.9	25 8.7
4	9.4	26 9.4 above measures
5	9.7	27 9.3 Evidently correct.
6	9.8	28 9.8

3:10

* All star images are elongated. — "g" diff. Inv. too low to examine.

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1915phae.proj.10720

Saturday February 12. 1916

Sheet No 12.

Scale m

B Series 85.

11" Tne B45999 C11 21 +15° J

		sc.1	sc.2	Diff.	Diff. Inv. sc.1	sc.2	Diff	PC. sc.2	Diff
		3.3							
1		3.1		3.51	5.5		1.31	8.1	− 1.29
		3.4							
2		3.2		3.68	5.8		1.28	8.3	− 1.22
		3.8							
3		3.6		3.87	6.4		1.27	8.1	− 1.03
		3.8							
4		3.6		4.11	6.6		1.31	9.2	− 1.29
		4.1							
5		3.9		4.20	1.5		0.80	9.6	− 1.30
		4.4							
6		4.2		4.06	1.6		0.86	9.5?	−1.04 Inv. peculiar.
		4.9							
7		4.7	B.	3.93	t.f.		,	t.	,
		5.1							
8		4.9	5.1	5.10 00 3.93	8.1		0.93	n.s.	,
		5.7							
10		5.5	5.6	5.65 10 3.80	8.9		0.55		
		6.1			9.60 11				
12		5.9	6.1	6.10 00 3.75	9.1	9.5	0.25		
14		t.f.	.	.	t.		,		
		6.3 from							
15		6.1	6.4	6.35 1 0 4.05	n.s.		,		
		4.0							
16		6.8	6.9	6.95 0 1 3.75					
17			7.4		3.62				
				7.50 00					
20			7.6	7.5	3.89				
				8.35 0 1					
23			8.4	8.3	3.51				
24			8.6	8.1	3.75				
25			8.8	8.7	3.82				
				9.40 1 1					
26			9.3	9.5	3.50				
				9.30 00					
27			9.3	9.3	3.84				
				9.90 00					
28			9.9	9.9	3.49				
29			t.	t.	.				
30			t.	t.	.				

"q" images are too faint to measure.

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1915phae.proj.10720

Saturday February 12, 1916.

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Scale m

B Series 85.

~~Tage~~ B 4500 Carte 21 − 16.5. Alt +07

Diffr. Inv. 90.

	sc.1	sc.2	sc.3	Cw.	Magn	g sc.2	h sc.2	Cw	Magn	sc.2	Cw	Magn
1	B.	B.		.		8.1	8.1	0.64	8.74	10.0?	− 1.15	×8.85?
2	4.3 (4.5)	B		3.92	8.42	8.2	8.2	0.62	8.82	9.8	− 1.15	8.65
3	4.6 (4.8)	5.1	4.95 2 1	3.86	8.81	8.3	8.3	0.60	8.90	‡	.	
4	5.3 (5.5)	5.5	5.50 0 0	3.80	9.30	9.1	9.1	0.40	9.50			
5	5.9 (6.1)	6.1	6.10 0 0	3.75	9.85	‡	.					
6	6.9 (7.1)	7.1	7.10 0 0	3.70	10.80							
7		7.4		3.70	11.10							
8		8.1	8.35 0 1	3.72	11.82							
9		8.4	8.3 8.35 1 0	3.74	12.09							
10		8.3	8.4	3.74	12.09							
11		8.4		3.75	12.15							
12		8.9		3.76	12.66							
13		9.1	9.15 0 1	3.78	12.88							
14		9.2	9.1 9.25 0 1	2.81	12.96							
15		9.2	9.3 9.55 0 1	3.82	13.07							
16		9.6	9.5 9.35 0 1	3.85	13.40							
17		9.8	9.9 9.85 1 0 1 1	3.88	13.73							
18		9.8	9.9 10.00 0 0	3.88	13.73							
19		10.0	10.0	.	.							

"g" images are too few.

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1915phae.proj.10720

Saturday February 12, 1916.

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Scale m.

B Series 85

B 4 ~~66~~ 02. Carte 22 −9.5 Alt +07

Diffr Inn

	sc.1	sc.2	sc.2	Cu.	Magn	sc.2	sc.2	Cu		sc.2 Cu.
1	B.			.		tk. 6.5	1.06	7.56		8.5 − 1.12 7.38
2	4.3 (4.5)	B		3.92	8.42	tk. 19	0.70	8.60		10.0 − 1.15 8.85
3	5.1 (5.3)	5.3	5.30 00	3.82	9.12	tk. 8.8	0.46	9.26		n.s. . .
4	5.7 (5.9)	5.6	5.75 12	3.79	9.54	9.5 (9.45 10)	9.4	0.32	9.77	
5	6.0 (6.2)	6.3	6.25 01	3.81 3.74	9.99 10.06	10.0 (10.00 00)	10.0	.	.	
6	6.1 (6.3)	6.1	6.20 11	3.81 3.75	9.95 10.01	tk 9.9?		.	.	
7	6.5 (6.7)	6.9	6.70 00	3.79 3.71	10.41 10.49	ns	ns.	.	.	
8	6.9 (7.1)	7.1	7.10 00	3.76 3.70	10.80 10.86					
9		7.5		3.75 3.70	11.20 11.25					
10		7.5		3.75 3.70	11.20 11.25					
11		8.2		3.73 3.74	11.94 11.93					
12		8.4		3.73 3.75	12.15 12.13					
13		8.6		3.73 3.77	12.37 12.33					
14		9.1 (8.90 22)	8.7	3.73 3.80	12.70 12.63					
15		8.9 (8.85 10)	8.8	3.73 3.80	12.65 12.58					
16		8.9 (9.05 12)	9.2	3.73 3.80	12.85 12.78					
17		9.1 (9.00 11)	8.9	3.73 3.80	12.80 12.73					
18		9.4 (9.35 01)	9.3	3.74 3.83	13.18 13.09					
19		9.5 (9.60 11)	9.7	3.75 3.85	13.35 13.35					

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Saturday February 12, 1916–

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Scale M

B Series 85

B 4603 Carte 22 – 9 64.5 Alt – 18

Diffr. Im.

	sc.1	sc.2	Cu	Magn	g sc.2	h sc.2	Cu.	.	P.C. sc.2	
1	B.		.		tf.	tf.	.	.	8.5 – 1.12	7.38
2	3.9 3.7		4.01	7.91	tf.	tf		.	9.+ – 1.14	8.26
3	4.6 4.4	B.	390	8.50	tf.	8.1	0.64	8.74	9.? def?	. .
4	4.7 4.5	4.7	389	8.59	8.5 00	8.5	0.52	9.02	7.	. .
6	4.9 4.7	5.2	384	8.89	tf.	8.6	0.50	9.10		
6	5.5 5.3	5.6	380	9.35	9.20 00	9.2	0.37	9.57		
7	tf.	tf.	.	.	9.45 01	9.5	0.32	9.77		
8	6.3 6.1	6.1	374	9.94	9.75 01	9.7	0.24	9.99		
9	6.3 6.1	6.3	374	10.04	9.95 01	9.9	.	.		
10	7.1 6.9	7.1	370	10.80	n.s	n.s.	.	.		
11		7.5	370	11.20						
12		7.8	370	11.50						
13		8.2	374	11.94						
14		8.2	374	11.94						
15		8.40 1 1 8.3 8.5	375	12.15						
16		8.80 00 8.8 8.8	379	12.59						
17		8.95 01 9.0 8.9	380	12.45						
18		9.40 1 1 9.3 9.5	384	13.24						
19		9.95 01 10.0 9.9	.	.						
20		7. 7.	.	.						

Some images have short trails - difficult to measure.

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Scale M

B Series 85

B 4560 4 Carte 22 - 23.5 Alt +07

Diffr'n.

P.C.

	sc.1	sc.2	Cu.	Magn	h sc.2	q sc.2	Cu.		sc.2	Cu
1	3.9 3.7 5.2	5.25 0.1	4.02	7.92	6.5	.	1.03	7.53	8.4	1.12 7.28 ~~9.52~~
2	5.0	5.3	3.82	9.07	8.6	+p.	0.51	9.11	m.s.	, ,
3	6.0 5.8	5.95 0.1 5.9 6.5	3.76	9.71	9.2	.	0.37	~~9.58~~ 9.7		
4	6.3	6.35 1.2 6.2	3.73	10.08	9.4	.	0.32	9.72		
5	6.1 5.9	6.15 1.0 6.2	3.74	9.89	9.5	.	0.31	9.81		
6	6.6 6.4	6.60 0.0 6.6	3.71	10.31	10.1	.	,	.		
7	7.0 6.8	7.05 2.1 7.1	3.70	10.75	?	.	,	.		
8		7.2	3.70	10.90						
9		7.4	3.70	11.10						
10		7.7	3.70	11.40						
11		8.1	3.72	11.82						
12		8.1	3.72	11.82						
13		8.4 8.3 0.0	3.75	12.15						
14	8.3	8.3 8.8 0.1	3.74	12.04						
15	8.9	8.9 9.0 5.2	3.79	12.59						
16	8.9	9.2 9.7 0.0	3.80	12.85						
17	9.7	9.7 9.5 0.1	3.87	13.57						
18	9.4	9.6 9.8 0.0	3.85	13.35						
19	9.3	9.8	3.87	13.67						

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Saturday February 12, 1916.

Sheet No 12

Scale M. B Series 85

	78 4 $\frac{60}{56}$ 05	C 12	23 + 15	
			Differences	P.C.
	sc 1 sc 2 sc 3	Diff	$\frac{9}{\text{sc 2}}$ $\frac{h}{\text{sc 2}}$ Diff	sc 2 Diff
1	B.	.	5.6 1.00	1.8 − 1.20
2	B	.	. .	8.2 − 1.21
3	B.	.	6.2 1.08	8.3 − 1.02
4	B.	.	6.25 1.06	88 − 1.24
5	3.6 3.4	424	1.2 0.64	9.2 − 1.36
6	44 4.2 B	382	1.5 0.72	~~8.8~~ 9.5 − 1.28
omit 7	. .	.	. . .	
8	B. 4.1	450	. . .	9.3 − 0.70
9	5.2 5.35 2.1 5.0 5.5	366	8.5 0.51	. .
omit ~~10~~	. .	.	. . .	
11	5.5 5.55 1.0 5.3 5.6	376	8.8 0.51	
12	5.7 5.75 1.0 5.5 5.8	386	9.30 1.1 9.4 9.2 0.26	
13	6.0 5.95 0.1 5.8 5.9	385	9.35 1.0 9.3 9.4 0.45	
14	6.1 6.10 0.0 5.9 6.1	381	9.60 1.1 9.1 9.5 0.31	
" ~~15~~	. .		. . .	Remeas.
16	~~6.8~~ 6.6 6.65 2.1 6.6 6.5	373	n.s. n.s. .	76 9.5 P.C. 8 9.5, 9.6.
17	~~6.9~~ 6.9 6.95 1.0 6.1 7.0	370		Accidental error in above meas. Feb. 24, 1916.
17a	7.45 1.0 7.5 7.4	363		
18	7.70 1.1 7.6 7.8	360		
" ~~19~~	.			
" ~~19a~~	~~8.1~~ 8.30 0.0 8.3 8.3	360		
20				
~~21~~	8.40 0.0 8.4 8.4	383		
21a	8.65 0.1 8.6 8.7	4.00		
~~22~~	.	.		
23	9.20 1.1 9.1 9.3	381		
24	9.40 1.1 9.3 9.5	404		

12:—
1:—2:04

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Saturday February 12, 1916.

Scale m

B Series 85

B 4566 05 C 12 cont

		sec z	sec z	
~~25~~		.925	0.1	
26	9 21	9.3	441	
def?	27	4	4	
	28	n.s.		

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Monday February 21, 1916

Sheet No 13

Scale m

B Series 89.

10 : 15 | B 46043 | C 10 | 19 + 15°

	pc.1	pc.2	pc.2	Diff	Diff. Inn. pc.2 g	pc.2 f	Diff	P.C. pc.2	Diff.
1	3.4 3.2			3.44	* 6.3		0.54	8.0	−1.16
2	3.7 3.5			3.71	6.8		0.61	8.2	−0.79
3	3.7 3.5			3.64	6.6	from	0.74	8.3	−0.96
4	3.9 3.7	B.		3.94	7.2		0.64	8.6	−0.76
dbl? 6	4.4 4.2	4.3	5 0 1	~~3.70~~	.		,	.	,
w.s. 7	~~6.5~~	4.3		3.94	7.6		0.69	8.8	−0.51
8	5.7 5.5	5.5	6 0 1 1	3.50	8.4		0.70	9.8 ~~9.3~~ w.s.	−0.70
9	5.8 5.6	5.6	7 0 1 1	3.70	8.4		1.00	sup?	.
10	6.1 5.9	6.0	6 0 5 1 0	3.64	8.1		0.99	~~7.7~~ f.	.
11	6.6 6.4	6.3	6 4 5 2 1	3.59	t.p.		,	n.s.	.
12	7.1 6.9	7.0	7 0 5 1 0	3.44	9.5		0.99		
14		7.3		3.71	t.p.		,		
15		7.4		3.77	9.8?		1.37		
16		7.8		3.72	sup.		,		
17		8.1		3.80	n.s.		,		
18		8.1	8.5	3.75	8 6 0 1 1				
19		8.1	8.1	4.04	8.7 0 0 0				
20		8.1	8.1	4.17	8.7 0 0 0				
21		9.2	9.1	4.33	9.1 5 0 1				
22		9.1	9.1	4.14	9.7 0 0 0				
24		9.3	9.8	4.48	9.7 5 1 0				
25		f.	f.	.					
26		n.s.	n.s.	,					
27		n.s.		,					
28									
f 29		8.5							
l		9.2							

* 'g' images are elongated and do not compare with scale.

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Monday February 21, 1916.

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Salem

B series 89

B 46044 D10 19h − 15° Diff. low. P.C.

	sc.1	sc.2	Cu.	Magn	sc.	Cu.	Magn
1			.		8.1	− 0.93	7.17
2			.		9.2	− 0.85	8.35
3	B.		.		t.p.	.	.
4	t.p.		.		8.6	− 0.90	7.70
5	t.p.		.		8.6	− 0.90	7.70
6	t.p.		.		8.8	− 0.88	7.92
7	3.7 3.5		3.99	7.69	8.7	− 0.89	7.81
8	3.9 3.7		3.94	7.84	nearly sup.		.
9	4.8 4.6		3.84	8.64	9.8	− 080	9.00
10	~~3.7~~		.	.	~~7.6~~	.	.
11	4.8 4.6		3.84	8.64	10.0	− 078	9.22
12	4.7 4.5		3.85	8.55	10.0	− 078	9.22
13	4.7 4.5 B		3.85	8.55	9.9	− 0.79	9.11
14	5.0 5.05 0.1 4.8 5.1		3.80	8.85	↓	.	.
15	6.7 6.65 1.0 6.5 6.6		3.69	10.34			
16	5.7 5.65 1.0 5.5 5.6		3.74	9.39			
17	6.3 6.25 1.0 6.1 6.2		3.70	9.95			
18	5.9 5.90 0.0 5.7 5.9		3.71	9.61			
19	6.4 6.40 0.0 6.2 6.4		3.69	10.09			
20	7.2		3.70	10.90			
21	6.8 6.85 0.1 6.6 6.9		3.69	10.54			
22	7.0 6.95 0.2 6.8 6.9		3.70	10.65			
23	7.1 7.10 0.0 6.9 7.1		3.70	10.80			
24	6.8 6.90 1.1 6.6 7.0		3.69	10.59			
25	7.6		3.72	11.32			
26	7.6		3.72	11.32			

Out of focus? dbl?

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Monday February 21, 1916.

Scale M

B Series 89.

B46044 D10 Diffr. Inv. cont.

		scr	Cu	Magn
27	7.7		3X3	11.43
28	7.7		3Y3	11.43
29	8.2		3.81	12.01
30	8.4		3.84	12.24
31	.		.	.
32	8.1		3.91	12.61
33	9.1	9.15 L0 9.2	4.01	13.16
34	9.3	9.40 L1 9.5	4.08	13.48
35a	9.4	9.45 01 9.5	4.09	13.54
36	9.5	9.60 L 9.7	4.13	13.73
37	10.0	10.00 00 10.0	4.24	14.24
38	10.0	10.00 00 10.0	4.24	14.24
39	m.s.	m.s.	,	,
40	m.s.		,	.

7th star almost superposed on 31

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Scale m

B Series 89-

B460 4+ cont D10. Diffr. Imm.

	g sc.1	g sc.2	h sc.1	h sc.2	Cw.	Magn
1	.		.			
2	.	5.8 5.6			0.72	6.52
3	.		.			
4	.		.			
5	.		.			
6	.		.			
7			7.2		0.78	7.98
8	.		7.5		0.77	8.27
9	.		.			
10	.		.			
11	.		.			
12	.		8.1		0.75	8.85
13	8.3	8.35 1-0	8.4		0.74	9.14
14	t.f.		8.7		0.74	9.44
15	t.f.		9.1		0.70	10.40
16	9.4	9.25 2-1	9.1		0.72	9.82
17	t.f.		9.1		0.70	10.40
18	9.4		nearly sep.		.	.
19	.		t.f.		.	.
20	m.s.		m.s.		.	.
21						
22						

Images very poor

" 4

" " 5

" " 6

" " 9

" " 10

" " 11

"g" images poor. All bright stars near edges of plate are poor.

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Scale M

B Series 89.

* 134604 5 — Carte — 20 − 9.5. — Att +06

	pc.1	pc.2	scz	Cu.	Magn.	Diff. scz	Diff. scz	Cu.	Magn.	q.c. scz
	5.6	5.60 00				9.36 01				
1	5.4	5.6		3.74	9.34	9.4	9.3	0.71	10.06	n.s.
	6.3	6.25 10								
2	6.1	6.21		3.70	9.95	+	9.9	0.70	1060	
	6.7	6.60 11								
3	6.5	6.5		3.69	10.29	n.s.	n.s.	,	,	
4		7.1		3.70	10.80					
5		7.4		3.70	11.10					
6		7.5		3.71	11.21					
7		7.9 poor		3.75	11.65					
8		8.3		3.83	12.13					
9		8.5		3.86	12.36					
10		8.6		3.89	12.49					
		8.90 00								
11		8.9	8.9	3.95	12.85					
		8.65 01								
12		8.6	8.1	3.90	12.55					
		8.85 01								
13		8.8	8.9	3.94	12.79					
		9.45 1.2								
14		9.3	9.6	4.09	13.54					
		9.80 11								
15		9.7	9.9	4.18	13.98					
		9.90 00								
16		9.8	9.9	4.21	14.11					
		10.00 00								
17		10.0	10.0	4.25	14.25					
18		n.s.	n.s.	,	,					
19										
20										

* All images elongated. Comparison with scale difficult.

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Monday February 21, 1916.

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Scale m.

B series 89.

B 46046 — le arte — 21 - 2.5° — Alt + 05

Diffuse m.

	sc. 1	Cu.	Magn	g h.	Cu.	Magn	P.C. sc. 2
1	B. B.	.	.	6.5 6.6	0.76	7.31	9.1 – 086 8.24
2	4.7 B	366	8.56	t.p. 8.6	074	9.34	". .
3	4.7 4.9	3.66	8.56	t.p. 8.7	0.74	9.44	". .
4	4.8 5.1	3.81	8.86	t.p. 8.9	073	9.63	". .
5	55 56	374	9.39	9.3 9.1	0.72	9.92	
6	56 57	3.73	9.48	t.p. 9.8	0.70	10.50	
7	6.1 6.4	3.69	10.04	" "	.	.	
8	7.3	3.70	11.00				
9	7.4	3.70	11.10				
10	7.8	3.74	11.54				
11	8.1	3.80	11.90				
12	8.3	3.83	12.13				
13	8.3 8.5	3.84	12.24				
14	8.5 8.6	3.88	12.43				
15	9.2 9.2	4.03	13.23				
16	9.4 9.4	4.09	13.49				
17	9.8 9.6	4.15	13.85				
18	" 10.0	4.24	14.24				
19	m.s. m.s.	.	.				

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Salem

B series 89.

	B 46047	Carte	21 – 16.5	Alt + 07
			Diffr. Inm.	P.C.
	sc.1 sc.2			sc.2
1	/		too poor.	too poor.
2	.			
3	.			
4	.			
5	.			
6	. .			
7	.			
8	.	Cw.		
9	8.3 ~~8.8~~ w.s.	383	12,13	
10	+f.	,	,	
11	8.4	384	12,24	
12	8.1	391	12.61	
13	8.7 8.8 (885 10)	394	12,79	
14	8.8 8.9 (885 01)	394	12.79	
15	9.21	423	13,23	
16	+f.	,	,	
17	9.6	412	13.72	
18	+f.	,	,	
19	+f.	,	,	
20	+	,	,	

"Begin with no. 9 to measure" H.S.L.
Bright stars very poor.

All images elongated.

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Monday February 21, 1916.

Sheets No 13

Scale m

B Series 89

B 46048 C11 21 +15°

	sc.1	sc.2	Diff.	Diff. Inv. sc.1	sc.1	Diff.	PC. sc.2	Diff
1	B.		.		5.8	0.81	1.6	– 0.79
2	B.		.		6.2	0.68	8.3	– 1.22
3	3.3 3.1		4.37	6.5	6.6	0.92	8.1	– 1.03
4	3.6 3.4		4.31	7.2	7.2	0.71	9.1	– 1.19
5	4.1 3.9		4.20	.	7.7	0.60	9.2	– 0.90
6	4.1 3.9	B	4.36	.	7.7	0.76	9.1	– 0.64
7	4.7 4.5	5.0	3.98	.	8.1	0.73	9.8	– 0.97
8	4.9 4.1	5.2	3.98	8.1	8.2	0.88	10.0	– 0.97
10	5.3 5.1	5.4	4.10	8.7	8.7	0.75	t.	.
12	5.8 5.6	6.1	3.90	9.4	9.5	0.40		
14	6.1 5.9	6.3	3.77	9.8	9.9	0.22		
15	6.4 6.2	7.0	3.70	t/p.	10.0	0.40		
16	7.1 6.9	7.2	3.55	n.s.	n.s.	.		
17		7.4	3.62					
20		7.7	3.69					
23		8.4	3.51					
24		8.6	3.80					
25		8.6	3.87					
26		9.3	3.65					
27		9.3	3.89					
28		9.6	3.79					
29		9.7	3.87					
30		10.0	3.97					
31		t.	.					

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Scale m

B Series 89.

B 46049 Carte 21 – 31.5. Alt +05

Diffr. Inn.

P.C.

	sc.1	sc.2	Cw.	Magn	a sc.2	b sc.2	Cw.	sc.2	Cw.
1	B		.	.	6.6	0.76	7.36	8.6 – 0.90	7.70
2	B.		.	.	1.2	0.77	7.97	8.8 – 0.88	7.92
3	3.8 3.6	B.	3.96	7.76	8.1	0.74	8.84	8.9 7.8 w S +0.88	8.82
4	4.9 4.1 5.00 1.1	5.1	3.81	8.81	8.95 1.2 9.1	8.8	0.62	9.57	m.s. . .
5	5.7 5.5 5.75 1.0	5.8	3.73	9.48	9.45 1.0 9.1	9.8	0.70	10.45	
6	6.4 6.2 6.40 0.0	6.4	3.69	10.09	≠	≠	.		
7	6.7 6.5 Up. 6.70 0.0	6.7?	3.69	10.39					
8		7.9	3.70	11.00					
9		7.7	3.73	11.43					
10	8.10 0.0 8.1	8.1	3.80	11.90					
11	8.55 1.0 8.5	8.6	3.87	12.42					
12	8.65 0.1 8.6	8.1	3.90	12.55					
13	9.05 1.2 8.9	9.2	3.99	13.04					
14	9.45 0.1 9.4	9.5	4.09	13.54					
15	10.00 0.0 10.0	10.0	4.24	14.24					
16									
17									
18									
19									
20									

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Monday February 21, 1916.

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Scale m

B Series 89-

B46050 Carte 21 – 51.5 Alt -02

	sc.1	sc.2	Cw.	Magn.	Diffr. Incr. sc.2	Cw.	Magn.	sc.2
1	B.		.	.	5.3	.	.	7.1 . .
2	B		.	.	6.2	0.74	6.94	8.4 – 0.91 7.59
3	3.0 (3.2)	B.	4.06	7.26	6.7	0.76	7.46	8.6 – 0.90 7.70
4	4.7 4.80 4.9 (4.9)		3.84	8.64	8.5	0.74	9.24	10.0 – 0.77 9.23
5	5.0 5.30 5.4 (5.2)		3.78	9.08	9.2 9.3 (9.25)	0.72	9.97	~~8.9~~ w.s.. .
6	4.5 5.70 5.1 (5.5)		3.73	9.43	9.5 9.5 (9.50)	0.71	10.21	
7	6.3 6.55 6.6 (6.5)		3.69	10.24	n.s. n.s.	.	.	
8		7.1	3.70	10.80				
9		7.6	3.73	11.33				
9a		8.2	3.81	12.01				
10		8.4 8.30 8.2	3.83	12.13				
11		8.1 8.70 8.1 (8.75)	3.91	12.61				
12		8.1 8.8 (9.25)	3.92	12.67				
13		9.3 9.2 (9.60)	4.04	13.29				
14		9.6 9.6 (10.05)	4.12	13.72				
15		10.1 10.0	4.25	14.30				

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Scale m. B Series 89.

B 46051 Cartê 22 -9.5 Dec +06

Diffr. Im. G.C.

	sc1	sc2	sc3	Cu.	Magn	g h.	sc2	Cu.
1	9.4			4.00	7.60			8.3 – 0.92 7.38
2	tfr.			.	.	all		9.6 – 0.81 8.79
3	4.9	5.2		3.79	8.94	diffr. Im.		m.s. . .
4	5.6	5.6		3.74	9.44	are		
5	5.9	6.2		3.70	9.85	poor.		
6	5.9	6.1		3.70	9.80	tfr. 9.6	0.71	10.31
7	6.5	6.5		3.69	10.29	7 &	.	.
8	6.6	6.8		3.69	10.49			
9	7.4			3.70	11.10			
10	7.3			3.70	11.00			
11	7.8			3.74	11.54			
12	7.9			3.75	11.65			
13	8.4			3.84	12.24			
14	8.1			3.91	12.61			
15	8.6	8.6		3.89	12.49			
16	8.8	8.7		3.92	12.67			
17	8.8	8.7		3.92	12.67			
18	9.2	9.1		4.01	13.16			
19	9.3	9.3		4.05	13.35			
20	7	7		.	.			

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Salem

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B series 89

* B46052 Carte 22 – 23.5. Alt +06

Diffr Inv.

	sc.	Cu.	Magn		Cu.
1	tfr.	.	.	bec	8.1? vfr. _089781
2	4.9 4.1	382	8.72	from	4 .
3	tfr.	.	.		ms. .
4	tfr. tfr.	.	.		
5	5.9 5.1 6.00 6.1	3.70	9.70		
6	6.6 6.4 6.55 6.5	3.69	10.24		
7	tfr. tfr.	. .	.		
8	tfr. 7.2	3.70	10.90		
9	7.3	3.70	11.00		
10	7.6	3.72	11.32		
11	8.1	3.80	11.90		
12	8.2 8.30 00	381	12.01		
13	8.3 8.3 8.20 00	383	12.13		
14	8.2 8.2 8.60 00	381	12.01		
15	8.6 8.6 9.05 12	389	1249		
16	8.9 9.2	399	13.04		
17	tfr. tfr. 9.65 01	.	.		
18	9.6 9.7 10.00 00	4.14	13.79		
19	10.0 10.0	4.24	14.24		
20	ms.	.			

* Region about 55mm from centre of plate.

All images elongated.

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Salem

B series 89.

B 46053 E1

Alt -13

	sc.1	sc.2	Cu.		Diffr. Inn. sc.2	Cu	Magn	sc.2	Cu.	
1	B		.	.	6.4	0.75	7.15	8.4	-0.91	7.49
2	.		.	.	.	.	.	tfr.	.	.
3	B		.	.	.	.	.	8.6	-0.90	7.70
4	B.		.	.	.	.	.	8.8	-0.89	7.91
5	tfr.		.	.	.	.	.	tfr.	.	.
6	3.8 (4.0)	B.	394	7.94	.	.	.	9.3	-0.84	8.46
7	4.6 (4.8)	4.85 01 4.9	382	8.67	.	.	.	9.6	-0.81	8.79
8	5.1 (5.3)	5.3 00 5.3	378	9.08	8.4	0.74	9.14	?	.	.
9	tfr.	.	.	.	.	.	.	9.9?	-0.79	9.11?
10	elong.	B.	.	.	.	.	.	~~tfr~~. 9.1	-0.80	8.90
11	5.4 (5.6)	5.65 01 5.7	374	9.39	8.7 (8.70 00)	8.7 thor	0.74	9.44	m.s.	. .
12	4.7 (4.9)	5.00 11 5.1	381	8.81	8.5 (8.45 10)	8.4	0.74	9.19	10.0	-0.77 9.23
13	5.7 (5.9)	5.95 10 6.0	371	9.66	9.2 (9.20 00)	9.2	0.72	9.92		
14	5.9 (6.1)	6.15 10 6.2	370	9.85	9.8 (9.75 01)	9.7	0.70	10.45		
15	6.1 (6.3)	6.35 10 6.4	369	10.04	9.9 (9.90 00)	9.9	0.70	10.60		
16	6.4 (6.6)	6.55 01 6.5	369	10.24	?	?	.	.		
17	6.7 (6.9)	6.80 11 6.7	369	10.49						
18		7.7	370	11.10						
19		8.1	380	11.90						
20		8.1 (8.10 00) 8.1	380	11.90						
21		8.1 (8.10 00) 8.1	380	11.90						
22		8.4 (8.40 00) 8.4	384	12.24						
23		8.4 (8.50 11) 8.6	386	12.36						
24		8.9 (8.80 11) 8.1	393	12.73						
25		8.8 (8.85 01) 8.9	390	12.75						
26		9.5 (9.05 01) 9.1	399	13.04						

1:32

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Scale M

B Series 89

B46053 cont

	sec?	Cu.	
27	94	4.08	13.48
28	98	4.18	13.98
29	〃	.	.
30	〃	.	.
31			
32			
33			

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Friday February 25, 1916.

Sheet No 13

Scale M B Series 90.

12:50 B46055 C12 23 +15°

	sc.1	sc.2	Diff	Diffr. Imm. sc.2 g	pc.2 h	Diff	P.C. (all from) sc.2	Diff
1	.		.	4/3	5.6	1.10	7.9	−1.30
2	.		.		5.6	1.39	. (v. elong.	
3	B		.	1/2	6.4	0.88	8.6	−1.32
4	3.6 3.8		3.96		t/p.	.	8.8	−1.24
5	37 3.5	B.	4.14		7.21	0.64	9.1	−1.26
6	43 4.1	4.4 4.35 1.0	3.87		7.7	0.52	9.6	−1.38
(poor) 8	B.	B.	.		t/p.	.	9.7	−1.10
9	50 4.8	5.4 5.20 2.2	3.81		t/p. (hazy)		7.	.
11	57 5.5	5.1 5.70 0.0	3.56		8.8	0.51		
12	58 5.6	5.1 5.75 0.1	3.86		9.2	0.41		
14	6.3 6.1	6.3 6.30 0.0	3.61		9.8	0.11		
16	7.0 6.8	6.8 6.90 1.1	3.78		7.	.		
17		7.2	3.45					
18		7.6	3.70					
		8.25 1.0						
20		8.3 8.2	3.65					
		8.45 1.0						
21		8.5 8.4	3.78					
		9.25 0.1						
23		9.2 9.3	3.76					
		9.55 1.0						
24		9.5 9.6	3.89					
		9.60 1.1						
26		9.5? 9.1?	4.06					
27		4 4.	.					
29		m.s.	.					
30								
31								
32								
		7.50 0.0						
17a		7.5 7.5	3.58					

All four plates are elongated. P.C. + "g" diffr. Images are very poor.

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Scale m- ---- B Series 90.

B 46056 E9- Alt + 01

		sc.1	sc.2	Cu.		g*	h	sc.2	sc.2		sc.2	
	1	B.		.		66	t.p.				t.p.	.
	2	B.		.		[illegible]	.				8.1	-120 6.90
	3	B		.							8.5	-121 7.29
	4	B		.			t.p.				8.7	-123 7.47
edge.	5	.		.			t.p.				t.p.	.
	6	B		.			7.21	0.69	7.89		9.21	-121 7.99
	7	3.7 3.5		4.01	7.71		t.p.	.	.		9.1	-119 8.51
	8	B.	B.	.	.		t.p.	.	.		9.3	-120 8.10
	9	4.7 4.5	4.80 1.1 4.9	3.84	8.64		t.p.	.	.		10.0	.
	10	4.9 4.7	4.90 0.0 4.9	3.83	8.73		t.p.	.			?	.
	11	4.7 4.5	4.80 1.1 4.9	3.84	8.64		8.5	0.50	9.00		10.1?	.
	12	5.3 5.1	5.20 1.2 5.1	3.79	8.99		t.p.	.	.			
	13	5.1 4.9	5.10 0.0 5.1	3.81	8.91		8.9	0.43	9.33			
	14	5.7 5.5	5.65 1.0 5.6	3.74	9.39		9.87	0.15	9.85			
	15	5.5 5.3	5.55 1.0 5.6	3.75	9.30		9.2?	0.45	9.65?			
	16	6.0 5.8?	5.95 0.1 6.1	3.71	9.66		9.8	0.11	9.91			
	17	6.4 6.2	6.45 0.1 6.5	3.69	10.14		n.s.	.	.			
	18	6.5 6.3	6.45 1.0 6.4	3.69	10.14							
	19	6.9 6.1	7.00 1.1 7.1	3.64	10.64							
	20	7.0 6.8	7.05 0.1 7.1	3.64	10.69							
	21		7.21	3.65	10.85							
	22		7.3	3.66	10.96							
	23		7.9	3.70	11.60							
	24		8.21	3.73	11.93							
	25		8.1	3.72	11.82							
	26		8.21	3.73	11.93							

* all Diff. Images are very much alike

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Scale M

B Series 90.

B 46056 cont. Eq

	RC =	RC =	Cw.	Magn
	8 35	0 1		
27	8.4	8.3	3.74	12.09
	8 75	0 1		
28	8.8	8.7	3.80	12.55
	9 10	0 0		
29	9.1	9.1	3.83	12.93
	9 00	1 1		
30	9.1	8.9	3.81	12.81
	9 35	0 1		
31	9.4	9.3	3.87	13.22
	9 55	0 1		
32	9.6	9.5	3.90	13.45
	9 80	0 0		
33	9.8	9.8	3.96	13.76
34	〃	〃	〃	〃
35	〃	〃	〃	〃

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Scale m

B series 90.

B 4505 7 Carte 23 −25° Alt. +05

	sc.1	sc.2	sc.3	Cw.	Magn.	Diff. sc.2	Diff. sc.3	Inm. Cw.		P.C. sc.3
						9h				
1	4.9	5.2		380	8.95	9.3	9.3	0.32	9.62	n.s.
2	5.8	5.9		371	9.66	10.0	↓	.		n.s.
3	6.1	6.1		370	9.90					
4		1.8		369	11.49					
5		1.9		370	11.60					
6		8.3	8.2	374	11.99					
7		8.4	8.4	377	12.17					
8		8.7	8.6	379	12.44					
9		9.5	9.3	384	13.24					
10		9.9	9.7	395	13.75					
11		↓	↓	.	.					
12										

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Scale m

B Series 90-

B 46058 Carte 23 −16 5 Alt +06

		sc.1	Cu.	Magn	Diffr Inm. sc.1	sc.2	Cu.	O.C. sc.2
	1	B.	.	.	t.p. 71	0.71	7.81	91 – 121 7.89
poor	2	.	.	.	t.p. 86	0.49	9.09	n.s.
"	3	.	.	.	t.p. 90	0.40	9.40	
	4	6.3 6.25 10 6.1 6.2	3.70	9.95	t.p. 99	.	.	
	5	6.4 6.40 00 6.2 6.4	3.69	10.09	t.p. 99	.	.	
	6	6.9 6.90 00 6.7 6.9	3.65	10.55	n.s. n.s.	.	.	
	7	7.0 7.05 01 6.8 7.1	3.64	10.69				
	8	7.5	3.67	11.17				
	9	7.6	3.68	11.28				
	10	7.8	3.70	11.50				
	11	8.1	3.72	11.82				
	12	8.3	3.74	12.04				
	13	8.5	3.78	12.28				
	14	8.65 01 8.6 8.7	3.79	12.44				
	15	9.00 11 9.1 8.9	3.81	12.81				
	16	8.95 12 9.1 8.8	3.81	12.76				
	17	9.50 00 9.5 9.5	3.89	13.39				
	18	9.55 20 9.5 9.6	3.90	13.45				
	19	9.80 60 9.8 9.8	3.95	13.75				
	20	±						

Sep. not at centre - Images of 1, 2, & 3 are very poor as compared with scale.

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Salem

B Series 90-

B 46059 Carte 23 – 31.5 — All taken

Diffr. Inv. D.C.

	Sc.1	Sc.2	Cw.	Magn	g	h	Cw.			Sc.2 Cw	
1	B.	B.	.	.	tip.		.	.	.	8.6 – 1.23	7.37
	4.1	4.10 00									
2	3.9	4.1	3.95	8.05	7.3		0.89	0.67	7.97	9.2 – 1.21	7.99
	4.8	4.70 1 1									
3	4.6	4.6	3.86	8.56	7.6		0.86	0.60	8.20	9.6 – 1.18	8.42
	5.4	5.50 1 1									
4	5.21	5.6	3.75	9.25	8.4?	poor.	0.92	0.51	8.91?	.	.
	6.1	6.00 1 1									
5	5.9	5.9	3.71	9.71	9.5			0.25	9.75		
	6.8	6.80 0 0									
6	6.6	6.8	3.65	10.45	?			.	.		
7		7.4	3.66	11.06							
8		7.6	3.68	11.28							
9		7.8	3.70	11.50							
		7.90 0 0									
10		7.9 7.9	3.70	11.60							
		8.40 0 0									
11		8.4 8.4	3.76	12.16							
		8.80 0 0									
12		8.8 8.8	3.80	12.60							
		8.95 ± 1									
13		8.8 9.1	3.81	12.76							
		9.30 0 0									
14		9.3 9.3	3.85	13.15							
		9.95 ± 1									
15		9.9 10.0	3.98	13.93							

"g" images very poor.

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Friday February 25. 1916.

Sheet No 13

Scale m.

B Series 90.

B 4600 60 C 12 23 + 15°

	sc.1	sc.2	Diff	sc.2	sc.2	Diff	sc.2	Diff.
				Diff Im.			Dc.	
1			.		5.5	1.10	7.7	— 1.10
2			.		5.6	1.39	8.2 poor	— 1.21
3	3.2 3.0		4.08		6.3	0.98	8.5	— 1.22
4	3.7 3.5		3.86		6.4	1.16	8.7? poor	— 1.14
5	3.7 3.5	B.	4.14	7.4 7.2	t.p.	0.64	9.2	— 1.36
6	4.1 3.9	4.15 1 0 4.2	4.07		t.p.	.	9.4?	— 1.18
8	.	.	.		t.p.	.	9.6	— 1.00
9	5.1 4.9? poor.	t.p.	3.91		8.3	0.71	1.	1
11	5.5 5.3	5.5 5.5 0 0	3.81		8.6	0.71		
12	5.6 5.4	5.6 5.6 0 0	4.01	9.3 9.4	9.3	0.26		
14	6.3 6.1	6.2 1 1 6.1	3.71		9.1	0.21		
16	6.7 6.5	6.7 0 0 6.6	3.68	1	1	.		
17	7.0 6.8	7.0 5 0 1 7.1	3.60					
18		7.6 8.1 0 0	3.70					
20		8.1 8.1	3.80					
21		8.3 8.4 8.2	3.93					
23		9.2 0 1 1 9.3 9.1	3.81					
24		9.6 0 1 1 9.7 9.5	3.84					
26		9.8 0 1 1 9.7 9.9	3.86					
27		1. 1.	.					
29								
30								
17a		7.3	3.78					

D.C. are much elongated!!

2:55

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Tuesday March 28, 1916.

Sheet no 28

Copied B27:206

Scale m. 11:15

Scale measures of A L 1' plates. for Southern Regions

A L 270. {E 3 Pole 6 40 -45° -90°

		sc.1	sc.?	sc.2	Diff	Cu	magn
S. Polar Seq.	a	6.1 5.9	6.05 10	6.0	-0.27	-0.25	5,80
	b	6.6 6.4	6.70 11	6.8	-0,04	-0.20	6.50
	c	7.1 6.9	7.10 00	7.1	-0.28	-0.17	6,93
	d	7.2 7.0	7.20 00	7.2	-0,04	-0,16	7.04
	e		7.10 00	7.1	-0.23	-0.17	6,93
	f		7.75 10	7.8	-0.01	-0.10	7,65
	g		8.15 01	8.1	-0.05	-0.03	8,12
	h		8.55 01	8.5	-0,13	0,06	8,61
	k		8.75 01	8.7	-0,18	0.15	8,90
	l		8.90 11	9.0	0.29	0.20	9.10
	m		9.30 12	9.2	0.33	0.58	9,88
	n		9.35 10	9.4	0.41	0.62	9,97
	o		9.45 10	9.4	0.74	0.74	10,19
	p		9.65 10	9.6	0.98	1.00	10.65
	q		of. f.				
	r						
	s						
	t						

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Tuesday, March 28, 1916.

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Scale m Scale measures. a L 1' plates Plot. no. 70.

*a L 270 cont. E3 $^{h}6\,40^{m}$ -45

Diff. from E3 Rel.

	sc1	sc2	sc3	Av	magn	Diff.	curve	magn.
1		7.3	7.30 00	7.3	-0.15	7.15	+0.02	-0.11	7.19
2		7.5	7.40 11	7.3	-0.14	7.26	-0.25	-0.08	7.32
3		th.						q	q
4		7.5	7.50 00	7.5	-0.13	7.37	+0.09	-0.05	7.45
5		7.8	7.70 11	7.6	-0.10	7.60	+0.11	+0.03	7.73
6		8.1	8.15 10	8.2	-0.03	8.12	-0.20	+0.17	8.32
7		8.2	8.25 01	8.3	+0.03	8.23	+0.01	0.21	8.46
8		8.6	8.55 01	8.5	0.06	8.61	+0.14	0.31	8.86
9		8.6	8.55 01	8.5	0.06	8.61	+0.63	0.31	8.86
10		8.8	8.75 01	8.8	ws 0.15	8.90	0.60	0.39	9.14
11		8.7	8.70 00	8.7	0.13	8.83	0.72	0.37	9.07
12		8.9	8.90 00	8.9	0.20	9.10	0.62	0.45	9.35
(very close to 1)	13	9.5	9.50 00	9.5	0.80	10.30	0.29?	0.69	10.19
	14	9.4	sup?	9.2	(sup?) 0.45	9.65	0.54?	0.57	9.77?
	15	9.3	9.35 10	9.4	0.62	9.97	0.49	0.62	9.97
	16	9.2	9.20 00	9.2	0.45	9.65	0.58	0.57	9.77
	17	9.1	9.70 00	9.1	.		0.95	0.79	10.49
	18	9.7	9.65 10	9.6?	1.00	10.65	1.00	0.75	10.40?
	19	10.0		?	.			0.94	10.94
	20		m.s.						

* This sequence is not at the ends, and the images are very much elongated.

11·48

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Wednesday March 29, 1916.

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Scalem -

B Series 95.

9.53 * B46136 Carte 2.2 -40.5 Ecc corr +.04

	sc.1			Curve	Magn.	Diffs. q h sc 2	Curve	Magn.	P.C. sc 2	Curve	Magn.
1	B.					53? N.fr.			7.2		
2	B					7.1	0.53	7.63	8.1	-1.40	7.30
3	3.5? 3.7? B.		3.7?	3.88	7.58?	7.95? 8.1? 1?	0.38	8.33?	9.3	-1.33	7.97
4	5.2 5.4 5.3		5.350	3.60	8.95	8.1	0.27	8.97	7?		
5	5.8 6.0 6.1		6.050	3.53	9.58	9.5	0.19	9.69			
6	6.2 6.4 6.4		6.400	3.50	9.90	10.0 9.95 01 9.9	0.14	10.09			
7	7.1			3.47	10.57	4.					
8	7.2			3.47	10.67						
9	7.4			3.48	10.88						
10	7.8			3.50	11.30						
11	8.1			3.51	11.61						
12	8.2			3.521	11.72						
13	8.6	8.5	8.500	3.56	12.06						
14	8.8	8.1	8.750	3.59	12.34						
15	9.2	9.1	9.150	3.63	12.78						
16	9.3	9.3	9.300	3.65	12.95						
17	9.7	9.8	9.750	3.72	13.47						
18	9.9	10.0	9.950	3.75	13.70						
19											
20											

all images slightly elongated.

* B46135 - 1st pt of Series is qual B.

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Scale M

B Series 95

B 46137 Carte 22 − 645. Alt corr −.12

		sc.1	sc.2	sc.3	Curve	Magn.	g sc.	g sc.2	g Curve	g Magn.	gc sc.2	gc Curve	gc Magn.
Too much elong.	1	.	.		.		7.3 7.25? 7.10	7.2?	0.50	7.75?	8.8	−1.40 −0.26	7.46 9.06
	2	4.4 4.6 4.5		4.550	3.72	8.27	t/h.	7.4	0.47	7.87	9.3	−1.37 −0.20	7.93 9.50
	3	5.3 5.5 5.6		5.550	3.59	9.14	t/h.	8.3	0.33	8.63	9.8	−1.30 −0.15	8.50 9.95
	4	5.7 5.9 5.8		5.850	3.55	9.40	t/h.	8.7	0.28	8.98	m.s.		
wrong unit	5	5.6 5.8 5 6.9		5.850	3.55	9.40	t/h.	8.9 8.7	w.s. 0.25	9.15	m.s.		
	6	6.6 6.8	6.9	6.850	3.49	10.34	9.9 9.85 10	9.8	0.15	10.00			
	7		7.3		3.47	10.77	t	t					
	8		7.8		3.50	11.30		m.s.					
	9		8.2		3.53	11.73							
	10		8.4	8.4	8.400	3.55	11.95						
	11		8.7	8.7	8.700	3.59	12.29						
	12		9.1	8.9	9.000	3.61	12.61						
	13		9.3	9.3	9.300	3.65	12.95						
	14		9.6	9.6	9.600	3.70	13.30						
	15		9.6	9.6	9.600	3.70	13.30						
Feature very sharp sc. image rather hazy	16		10.0?	t/h.		3.77	13.77?						

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Scale M

B Series 95

B 46138 Carte 23 0–2.5° Dec corr +.06

	rc 1	rc 2		Curve	Magn.	Diffr. Inn. q	h	Curve	Magn.	P.C. rc 2	Curve	Magn.
1	5.6	5.8	5,8	5.80 00	3.55	9.35	9.3 (9.25,10)	9.2	0.21	9.46	m.s.	
2	6.2	6.4	6.4	6.40 00	3.50	9.90	9.9 (9.85,10)	9.8	0.15	10.00		
3	6.5	6.7	6.7	6.70 00	3.49	10.19	‡	‡				
4		7.9	v.f.		3.50	11.40						
5		8.1			3.51	11.61						
6		8.3	8.5	8.40 ±1	3.55	11.95						
7		8.5	8.5	8.50 00	3.56	12.06						
8		8.8	8.7	8.75 ±1	3.59	12.34						
9		9.3	9.2	9.25 10	3.65	12.90						
10		9.3	9.7	9.50 ±2	3.69	13.19						
11		9.9	10.0	9.95 ?10	3.75	13.70 ?						
12		‡										
13												
14												
15												

Diffr. Images of 3 are fainter than 10th image.

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Wednesday March 29, 1916.

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Scale M

B Series 95.

	B 46 139			Carte		23 −16.5				Aer. corr. +05		
						Diffr. Im.				P.C.		
	sc 1	sc 2		Curve	Magn.	g	h sc 2	Curve	Magn.	sc 2	Curve	Magn.
1	4.1	4.3 4.1	4.20 ±	3.79	7.99	*	7.2	0.51	7.71	9.2	−1.35	7.85
2	5.2	5.4 5.6	5.50 ± 1	3.60	9.10	.	8.6	0.30	8.90	4.		
3	5.9	6.1 6.1	6.10 00	3.52	9.62	.	9.4	0.20	9.60			
4	6.2	6.4 6.5	6.45 01	3.50	9.95	.	9.7	0.17	9.87			
5	6.5	6.7 6.7	6.70 00	3.49	10.19	.	9.9	0.15	10.05			
6		7.2		3.47	10.67	.	m.s.					
7		7.5		3.47	10.97							
8		7.7		3.49	11.19							
9		7.9		3.50	11.40							
10		8.1		3.52	11.62							
11		8.2		3.53	11.73							
12		8.3		3.54	11.84							
13		8.5	8.60 ± 1 8.7	3.57	12.17							
14		8.7	8.70 00 8.7	3.59	12.29							
15		8.9	8.90 00 8.9	3.60	12.50							
16		8.9	8.90 00 8.9	3.60	12.50							
17		9.5	9.40 00 9.4	3.67	13.07							
18		9.4	9.45 01 9.5	3.68	13.13							
19		4	4									
20		m.s.	m.s.									

* g diffr images are elongated, and do not compare with scale. Tried to measure, but decided they were all too faint.

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Wednesday March 29. 1916.

Plotted sheet 16

Scale m.

B series 95.

B 46 140 C 12 23 +15°

	sc 1	sc 2		Diff.	sc 1 + sc 2	Diff.
					D.C.	
1	B				8.1? (very much diff.)	−1.50?
2	B				8.3	−1.31
3	B				8.6	−1.32
4	3.6	3.8		3.76	9.1	−1.54
5	3.6	3.8	B.	4.04	9.2	−1.36
6	4.2	4.4	4.3	4.35 0 1 3.87	9.6 9.65 0 1 9.7	−1.43
8	f/p.				9.3 9.85 ± 0 9.4	−0.75
9	5.1	5.3	5.2	5.25 1 0 3.76	f	
11	5.1	5.3	5.5	5.40 1 1 3.91		
12	5.6	5.8	5.8	5.80 0 0 3.81		
14	6.2	6.4	6.4	6.40 0 0 3.51		
16	6.7	6.9	6.8	6.85 1 0 3.53		
17			7.3	3.35		
17a			7.6	3.48		
18			7.7	3.60		
20			8.3 84	8.35 1 0 3.55		
21			8.6 86	8.60 0 0 3.63		
21a			8.7 8.8	8.75 1 0 3.90		
23			9.2 9.4	9.30 1 1 3.71		
24			9.6 9.6	9.60 0 0 3.84		
26			9.8 9.9	9.85 0 1 3.81		
27			f. f.			
29			n s.			

(much fainter than 10th mag.)

Out of focus. Near Edge

See list of stars to be omitted for Arequipa plates.

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Wednesday March 29, 1916.

Scale m. B series 95

	B 46 140		C 12 cont		Diffr. Inn.
	g		h		
	sc 1	sc 2	sc 1	sc 2	Diff.
1	*		5.6 v.	5.8	0.80
2			5.6 v.	5.8	1.19
3			6.6 two	6.8	0.48
4			7.2		0.36
5	7.2		7.4	7.30 ∠1	0.54
6			elong.		
8			out of focus.		
9			8.7		0.31
11			9.1		0.21
12			9.7		-0.09
14			9.9		0.01
16			n.s.		
17					
18					
20					
21					
23					

* g Diffr. images are very poor. Images are elongated

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Wednesday March 29, 1916.

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Scale m

B Series 95.

B 46 141 Carte 23 – 31.5° Abb. corr. +.06

	sc.1			Curve	magn.	g sc.2	g sc.? (Dec. plate)	Curve	magn.	P.C. sc.2	Curve	Magn.
1	B.			.	.		.	.	.	8.7	−1.40	7.30
2	9.4	3.6		3.90	7.50	7.6	0.43	8.03		9.3	−1.33	7.97
3	3.6	3.8 03.		3.86	7.66	8.1	0.36	8.46		9.3	−1.33 (7)	7.97 (3)
4	5.1	5.3 5.3	5.30 00	3.61	8.91	8.7	0.28	8.98		10.0?	−1.29 (30)	8.91? (40)
5	5.1	5.9 5.8	5.85 10	3.55	9.40	9.45 9.4	0.19	9.64				
6	6.6	6.8 6.7	6.75 05	3.49	10.24	†						
7	7.3			3.47	10.77							
8	7.1			3.50	11.20							
9	7.9			3.50	11.40							
10	8.3			3.53	11.83							
11	8.5	8.6	8.55 10	3.56	12.11							
12	8.8	8.8	8.80 00	3.60	12.40							
13	8.9	8.8	8.85 10	3.60	12.45							
14	9.5	9.4	9.45 10	3.68	13.13							
15	9.8	9.8	9.80 00	3.74	13.54							
16	†	†										
17	m.s.											

all g images are elongated. Too faint to compare with scale.

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Wednesday March 29, 1916.

Copied B35; 172

Scale m. B Series 95

B 4614 21 Carte 23 −51.5. alt. cor. −.01

	sc.1 B.	sc.2		Curve	Magn.	Diffr. dm. g h	Curve	Magn.	P.C. sc.2	Curve	Magn.
1	~~dbl~~			·	·	~~dbl~~ ~~dbl~~ 6.5	0.70	7.20	~~dbl~~ 8.5	−1.41	7.09
2	3.0	3.2	3.2	·	·	tf. 7.1	0.53	7.63	8.6	−1.40	7.20
3	3.6	3.8 4.0	3.902	3.84	7.74	8.3 8.25 8.2	0.33	8.58	9.9	−1.18 30	8.77 60
4	4.6	4.8 5.1	4.952	3.67	8.62	9.1 9.10 9.1	0.22	9.32	7.		
5	6.1	6.3 6.2	6.25 10	3.51	9.76	9.8 9.75 9.7	0.16	9.91			
6	6.8	7.0 6.8	6.90 11	3.48	10.38	f. 7.					
7		7.4		3.48	10.88						
8		7.8		3.50	11.30						
9		8.2		3.53	11.73						
10		8.3	8.4 8.35 10	3.54	11.89						
11		8.7	8.7 8.700 0	3.58	12.28						
12		9.1	9.1 9.100	3.62	12.72						
13		9.2	9.1 9.150 2	3.63	12.78						
14		9.8	9.8 9.800 0	3.74	13.54						
15		10.0	10.0 10.000 0	3.76	13.76						

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Wednesday March 29, 1916.

Copied B $\frac{27}{35}$: 108-112

Scale 1 m.

B Series 95

B 4 6 1 4 5 — E 2 — 4 − 45° — Alt. corr. −.20

	*	sc.1			Curve	magn.	B.C. sc.1	sc.2	Curve	magn.	sc.?
1		B.			.	.	8.1		−1.40	7.30	8.1
2		3.8	4.0		3.82	7.82	9.4		−1.30	8.10	
3		B.			.	.	9.1		−1.36	7.74	9.1
4		3.5	3.7		3.88	7.58	8.9? Imp. poor		−1.39	7.51?	8.9? Imp. poor.
5		B.			.	.	9.6		−1.25 (33)	8.35 (27)	9.6
6		4.2	4.4		3.75	8.15	9.7		−1.21 (32)	8.49 (38)	9.7
7		4.3	4.5		3.73	8.23	10.0		−1.09 (30)	8.91 (40)	
near edge.	8	3.6?	3.8?	13.	3.86	7.66?	7?				
	9	4.6	4.8	4.9	4.85 01	3.68	8.53				
	10	4.8	5.0	5.0	5.00 00	3.65	8.65				
	11	4.7	4.9	5.0	4.95 ±0	3.67	8.62		↓		↓
	12	4.7	4.9	5.1	5.00 ±1	3.65	8.65				
	13	4.8	5.0	5.3 5.6 w.s.	5.15 21	3.63	8.78				
	14	5.5	5.7	5.7	5.70 00	3.57	9.27				
	15	5.8	6.0	5.8	5.90 ±1	3.55	9.45				
	16	5.3	5.5	5.6	5.55 ±0	3.59	9.14				
Sup. on diff 13)	17	~~4.8~~ sup.			.	.					
	18			5.6		3.58	9.18				
dbl.	19	~~6.1~~ 6.3		6.5	6.40 ±1	3.50	9.90				
	20	6.4	6.6	6.7	6.65 01	3.50	10.15				
	21	6.6	6.8	7.0	6.90 ±1	3.48	10.38				
	22			7.3		3.47	10.77				
	23			7.3		3.47	10.77				
	24			7.5		3.48	10.98				
	25			7.9		3.50	11.40				
	26			8.1		3.52	11.62				

* All clear images ~~similar~~ elongated.

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Wednesday March 29, 1916.

Scale M B Series 95

B 46145 E 2 cont- 4 −45° Rx. cor. −.20

	scr. sup.	scr. inf.		Curve	Magn.
27				.	.
28	8.3	8.5	8.40 ± 1	3.55	11.95
29	8.3	8.5	8.40 ± 1	3.55	11.95
30	8.5	8.6	8.55 ± 0	3.56	12.11
31	8.8	8.8	8.80 00	3.60	12.40
32	9.1	9.2	9.15 ± 0	3.63	12.78
33	9.1	9.2	9.15 ± 0	3.63	12.78
34	9.3	9.3	9.30 00	3.65	12.95
35	9.9	9.9	9.90 00	3.75	13.65
36	7.	7.			

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Wednesday March 29, 1916.

Scale M

B Series 95

B 46145 cont E 2 * Diff. Inn. Alt. corr — .20

	g sc.1	g sc.2	h sc.1	h sc.2		Curve	Magn.
1		·		t.p.		·	·
2		·		7.2		0.50	7.70
3		·		7.3		0.49	7.79
4		·		7.4		0.48	7.88
5		·		t.p.		·	·
6		·		t.p.		·	·
7		·		t.p.		·	·
8		·		t.p.		·	·
9		8.3		8.3	8.30 ∞	0.33	8.63
10		8.3		8.4	8.35 ± 0	0.32	8.67
11		·		8.6		0.30	8.90
12		·		8.3 ~~8.3~~		0.33	8.63
13		sup.		8.6		0.30	8.90
14		·		8.8		0.26	9.06
15		·		9.3		0.20	9.50
16	α	9.3		9.3	9.30 ∞	0.20	9.50
17		sup.		sup.		·	·
18		·		9.4		0.20	9.60
19		·		9.9		0.15	10.05
20		·		†		·	·
21		·		m.s.		·	·

12:05

* All diffraction images are prov., but elongated for comparison with scale.

1-12

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Wednesday March 29, 1916.

Plotted sheet 16

Scale m

B Series 95

B 46 | 46 C 1 1 + 15°

		pc.1	pc.2	Diff.	Diffs. Im. g pc.2	Diffs. Im. h pc.2	Diff.	D.C. pc.2	D.C. Diff.
1		B.			·	7.1	0.08	8.1	−1.52
2		B.			·	7.1	0.29	8.9	−1.51
3		3.3	3.5	4.00	·	7.2	0.30	8.9	−1.40
Edge	4	t.f.			·	t.f.	·	9.1	−1.74
	5	4.1	4.9 5.1	5.00 ± 3.33	·	7.9	0.43	9.9	−1.57
	7a	·	t.f.	·				10.0	−1.14
Film defective	9	·	·	·	·	·		·	
	11	6.1	6.3 6.3	6.30 ± 3.39	9.6	9.45 2 1 9.3	0.24	m.s.	
	12	6.5	6.7 6.8	6.75 ± 3.27	10.0	9.95 0 1 9.9	0.07		
	13a	6.7	6.9 7.1	7.00 ± 3.44	*	*	·		
	14	6.9	7.1 7.3	7.20 ± 3.42					
	15		7.8	3.24					
	16		7.9	3.30					
	17		8.0	8.1 8.05 0 1 3.45					
	18		8.6	8.1 8.65 0 1 3.29					
	19		8.1	8.1 8.70 0 0 3.51					
	20		9.2	9.1 9.15 0 1 3.47					
	21		9.3	9.3 9.30 0 0 3.62					
21a	24		9.8	9.9 9.85 0 1 3.50					
			m.s.	m.s.					
	25								
	26								
	18a		8.4	8.4 8.40 0 0					

g Diffs Images are very faint.

1:35

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Monday
Saturday April 3 ?, 1916.

Shut no 25

Copied 327:206

Scale M 9:20

Sc. measures of a & 4' plates. South Pole. E4 } 9 20-45°

a S 250

Seq. for South Pole.

	sc.1	sc.2	sc.3	Diff	In	Magn
a	5.7 5.5	6.5 10	5.6	0.13	0.21	5.86
b	6.3 6.1	6.20 11	6.1	0.46	0.17	6.37
c	6.7 6.5	6.75 10	6.8	0.13	0.18	6.93
d	9.0 6.8	7.05 01	7.1	0.11	0.20	7.25
e	7.1 6.9	7.15 10	7.21	0.18	0.23	7.38
f						
g	7.1	7.70 00	7.1	0.40	0.25	8.05
h	8.1	8.10 00	8.1	0.32	0.50	8.60
k	8.3	8.30 00	8.3	0.63	0.63	8.93
l	8.6	8.50 11	8.4	0.69	0.80	9.30
m	8.8	8.75 01	8.7	0.88	1.00	9.75
n	8.7	8.75 10	8.8	1.01	1.00	9.75
o	8.7	8.75 10	8.8	1.44	1.00	9.75
p	9.3	9.25 10	9.2	1.38		
q						
r						
s						
t						

Im. defective.

too superposed? Seq. f
Exact. difficult. Too many stars in field
close dbl.?

Star Images are very sharp and slightly elongated, therefore difficult to compare with scale.

See also next page.

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1915phea.proj.10720

Monday
Saturday April 8, 1916.

Copied B 27:130

Plotting sheet 71

Scale m Sc. Measures of a L 1' plates.

a L 250 cont

	Seq. E 4 →	sc.1	sc.2	sc.3	Cu	Magn	Diff.	Cu.	Magn.
1		5.6	5.85-01	5.9	0.19	6.04	1.17	1.14	6.99
2		6.4	6.6 6.60.00	6.6	0.17	6.77	0.91	0.98	7.58
3		6.8	7.0 7.10-11	7.2	0.20	7.30	0.80	0.90	8.00
4		6.6	6.8 6.85-01	6.9	0.18	7.03	1.13	0.93	7.78
5		6.9	7.1 7.15-10	7.2	0.23	7.38	0.89	0.90	8.05
6			7.2 7.20.00	7.2	0.23	7.43	0.92	0.90	8.10
7			7.3 7.30.00	7.3	0.24	7.54	0.80	0.91	8.21
8			7.5 7.60-11	7.7	0.30	7.90	1.26	0.98	8.58
9			8.2 8.15-01	8.1	0.54	8.69	1.07	1.15	9.30
10			8.2 8.2000	w.s. 8.2	0.58	8.78	1.07	1.17	9.37
11			8.2 8.20.00	8.2	0.58	8.78	1.20	1.17	9.37
12			8.3 8.35+10	8.4	0.68	9.03	1.39	1.22	9.57
13			8.4 8.45-01	8.5	0.74	9.19	1.32	1.26	9.71
14			8.5 8.55+10	8.6	0.83	9.38	1.19	1.31	9.86
15			8.6 8.60.00	w.s. 8.6	0.87	9.47	1.28	1.33	9.93
16			8.6 8.70+11	8.8	0.96	9.66	1.50	1.37	10.07
17			8.9 8.85+10	8.8	1.10	9.95	1.56	1.44	10.29
18	Im. sup?		sup.	sup?					
19			9.2 9.25-01	9.3			1.31	1.65	10.90
20			9.3 9.30.00	9.3			1.70	1.68	10.98
21			9.4 9.35-02	9.3			1.77	1.70	11.05
22			sup.						
23			f.	f.					

Star 4 is brighter than star 3.

10:11.

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1915phae.proj.10720

Monday April 3, 1916.

Copied Book 27:130

~~Scale~~ Sc measures of A h S' plates.

* A h 258 E4 South Pole }

a	c 2 1	7.08	7.07	01, 01			
b	1 1 d	7.06			h 2 10	8.62	8.72 10, 11
c					10 1 K.	8.83	
d	e 3 2	7.63	7.64	01, 00			
e	2 1 f	7.64			k 1 11	9.03	9.06 03, 03
f					11 1 l	9.09	
g	f 1 3		7.84	7.92 08, 08			
h	3 2 g	8.00			l 1 12	9.29	9.36 07, 07
k					12 2 m	9.43	
l							
m	Stars 4 and 6 are much elongated. Do not compare with Polar Sequence.				~~k 2 13~~		
n					l 2 13	9.39	9.41 02, 02
o					13 2 m	9.43	
p							
q	g 1 5	8.20	8.21	01, 01	m 1 14	9.73	9.64 09, 08
r	5 2 h	8.22			14 2 m	9.56	
s							
t	g 3 7	8.40	8.31	09, 09	m 1 15	9.73	9.64 09, 08
	7 2 h	8.22			15 2 m	9.56	
8 = very faint	h 2 8 ?	8.62	8.68?	06, 05	m = 16	9.76	9.8 ?
	8 2 k !	8.73					

17.

Letters = stars of South Polar Seq.
Nos = " " E 4 " .

Images are too faint to use scale, "measure Seq E4 by Argelander's method"

H.S.L. Apr. 3, '16.

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1915phae.proj.10720

Monday April 3, 1916.

Scale 1 Sc measures of a & 1' plates.

~~28 258~~

Seq. E4 sc.1 sc.2

1
2
3
4
5
6
7
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9
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11
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13
14
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16
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18
19
20

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1915phae.proj.10720

Wednesday April 5, 1916.

Plotted sheet 16

Scale m

B series 40.

10:14 B45407 ·C8 15 +15°

*	sc1	sc2	sc2	Diff.	sc2	Diff.
					P.C.	
1	B			·	8.1? faint	−0.90?
3	B.			·	9.3	−1.21
4	~~+f.~~	~~+f.~~		·	8.6? near edge. out of focus.	
6a	4.2	4.4	4.5	4.4501 4.34		−0.88?
8	4.6	4.6	4.7	4.6501 4.32	9.3	−0.51
9	4.8	5.0	5.1	5.0501 4.17	9.9	−0.93
11	5.2	5.4	5.5	5.4501 4.06	10.0?	−0.78?
12	5.6	5.8	5.8	5.80 00 3.95		
14	5.8	6.0	6.1	6.0501 3.92		
15	6.2	6.4	6.5	6.4501 3.91		
16	6.5	6.7	6.7	6.70 00 3.82		
18	6.5	6.7	6.8	6.75 ±0 3.93		
20a?		7.2		4.02		
21		7.6		3.82		
22		7.8	7.9	7.8501 3.97		
25		8.4	8.4	8.4000 3.86		
25a → 26		8.7		8.7 ±. 3.97		
		8.9	8.8	8.8510 3.88		
27		9.1	8.9	9.0011 4.31		
27a		9.5	9.5	9.5000 4.18		
28		9.8	9.8	9.8000 4.06		
29		f.	f.			
29a						

See list of stars to be omitted in measuring Arequipa plates.

*Sequence not in centre. All images are much Elongated.

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1915phae.proj.10720

Wednesday April 5, 1916.

Scale m. B Series 40.

B 4540 8T. cont. C8 Diffr. Im. 15+15

	g sc.2	h sc.2	l sc.1 sc.2		Diff.
1	t.p.	t.p.			.
3	t.p.	7.2			0.89
Out of focus. 4	.	.			.
8	8.1	8.1	8.10	00	0.87
9	8.3	t.p.	8.3	a.	0.92
11	t.p.	8.1	8.7	a	0.81
12	9.5	9.2	9.35	12	0.40
14	9.5 ~~9.2~~	9.2	9.35	12	0.62
15	10.0	9.8	9.90	11	0.46
16	10.0	10.0	10.00	00	0.52
~~17~~					
18		t.			

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1915phae.proj.10720

Wednesday April 5, 1916.

Copied B 34:71

Scale m.

B Series 40.

* B 45 40 8 | 1791 K | 15 | 49 - 45 ± | Alt. corr. +.02

	sc.1	sc.2	sc.3		Curve	Magn.	g sc.2	h sc.2	Curve	Magn.	PC. sc.2	Curve	Magn.
							+b=7.8						
1	4.1	4.9	4.6	4.75	12	4.20	4.5	4.3	0.85	8.65	9.8	−0.83	8.97
2	6.1	6.3	6.2	6.25	10	4.04	9.6	9.3 (3)a	0.58	9.88	±		
3	6.1	6.3	6.3	6.30	00	4.04	def.	9.1	0.52	10.22			
4	6.5	6.7	6.1	6.70	00	4.01	±	±					
5	6.6	6.8	6.8	6.80	00	4.00							
6			7.4			4.00				11.40			
7			7.8			4.00				11.70			
8			7.8			4.00				11.80			
9			8.2			4.00				12.20			
10			8.3	8.4	8.35	04.00				12.35			
11			8.9	8.8	8.85	04.00				12.85			
12			9.2	9.2	9.20	00 4.01				13.21			
13			9.3	9.4	9.35	10 4.02				13.37			
14			9.4	9.5	9.45	01 4.03				13.48			
15			9.8	9.9	9.85	01 4.05				13.90			

All images Elongated.

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Wednesday April 5, 1916.

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Scale m

B Series 40.

B45409 132 K. 16 12-15.1 Alt. corr. +.05

	sc1	sc2		Curve	Magn.	g sc1	h sc2	Curve	Magn.	P.C. sc2	Curve	Magn.
1	2.8	3.0		4.80	7.80	6.4 from 6.6	6.5 6.65 6.7	1.15	7.80	8.5	-0.94	7.56
2	3.4	3.6		4.55	8.15	t.p. sc2 7.2		1.00	8.20	· (too close to bright star)		
3	4.2	4.4.		4.30	8.70	sc2 7.4	7.50 7.6	0.92	8.42	9.3	-0.89	8.41
4	5.1	5.9 5.1	5.80 ±	4.08	9.88	t.p. 8.8		0.66	9.46	m.s.		
5	6.3	6.5 6.3	6.40 ±	4.03	10.43	9.4	9.50 9.6	0.55	10.05			
6	6.8	6.5 6.6	6.55 ± 0	4.02	10.57	9.5	9.55 9.6	0.54	10.09			
7		7.5		4.00	11.50	m.s. m.s.						
8		7.5		4.00	11.50							
9		7.8		4.00	11.80							
10		8.3		4.00	12.30							
11		8.4	8.5 8.45	0.1	4.00	12.45						
12		8.8	8.9 8.85	0.1	4.00	12.85						
13		9.2	9.2 9.20	0.0	4.02	13.22						
14		9.9 from 9.7	9.80	±	4.04	13.84						
15		9.6	9.5 9.55	0.1	4.03	13.58						
16		9.9	9.9 9.90	0.0	4.05	13.95						
17		10.1?	f. 10.1?	±	4.06	14.16?						

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1915phae.proj.10720

Wednesday April 5, 1916.

Copied B34: 114

Scale m

B Lacerta

B4541O 36 K.S. 16 29 - 24.1 Ref. corr. +.07

	pc.1	pc.2	pc.3	Curve	magn.	g pc.2	h pc.2	Curve magn.	magn.	P.C. pc.2
1	4.4	4.6 B.	4.6 g.	4.25	8.85	tfr. 8.1		0.79	8.89	1
2	5.1	5.9	5.6	5.75 1	4.08	9.5	9.40 11 9.3	0.56	9.96	
3	6.5	6.7	6.6	6.65 10	4.01	10.66				
4	6.5	6.7	6.6	6.65 10	4.01	10.66				
5		tfr.								
6		tfr? elong.			4.00	11.70?				
7		tfr.								
8		8.3	8.4	8.35 10	4.00	12.35				
9		8.8	9.1	8.95 20	4.01	12.96				
10		8.9	8.8	8.85 10	4.00	12.85				
11		9.3	9.3	9.300	4.02	13.32				
12		9.7	9.8	9.75 10	4.04	13.79				
~~13~~										
10a		9.2	9.3	9.25 01	4.02	13.27				

Stars 2, 3, 4, 6, 7, 8 are outside square. Not enough stars within. Sequence not in center of plate, image elongated.

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1915phae.proj.10720

Wednesday April 5, 1916.

Plotted sheet 16

Scale m

B series 40-

B 45412 C9 17 +15°

	sc.1		Diff.	Diff. Im. g	hr sc.1	Diff.	P.C. sc.2	Diff.
3	B							
3a	B							
4	2.1 2.9		4.92		56 5.8	1.24	8.0	-0.96
					sc.2		8.4	-1.05
5	3.1 3.3		4.76		6.7	1.12	8.8	-0.98
6	4.2 4.4		4.07		7.2	0.86	8.9	-0.84
6a	4.5 4.7		3.94		7.4	1.07	9.3	-0.83
7	4.4 4.6 4.6	4.60 00	4.44		7.8	0.84	9.9	-1.26
8	5.3 5.5 5.4	5.45 10	4.08		8.4	0.64	?.	
8a	5.4 5.6 5.6	5.60 00	4.08		8.6	0.93	?.	
9	5.7 5.9 5.8	5.85 10	4.24	9.2	9.05 21			
					8.9	0.63		
12	5.9 6.1 6.2	6.15 10	4.42		9.5	0.59		
14	6.4 6.6 6.6	6.60 00	4.19		?.			
15	7.2		3.93					
16	7.6		4.08					
17	7.7 7.8	7.75 10	4.08					
18	8.3 8.3	8.30 00	4.11					
20	8.9 8.8	8.85 10	3.89					
21	9.2 9.2	9.20 00	3.84					
22	9.3 9.3	9.30 00	4.10					
23	9.9 9.8	9.85 10	3.93					
24	9.9 10.0	9.95 10	4.00					
25	?. ~~10.0~~	?.						
27	m.s.							

9 images poor.

See list of plates to be omitted in measuring B plates

Sequence not in centre - all images elongated.

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Wednesday April 5, 1916.

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Scale m. B Lyrae 40-

B 45413 196 K .17 .04-6.00 Obs. corr. -.04

	sc.1	sc.2		Curve	Magn.	g sc.2	h sc.3	Curve	Magn.	PC sc.2
1	5.6	5.8	5.8	5.80	4.08	9.88	9.1 nearly 9.3	0.60	9.70	1.
2	5.9	6.1	6.1	6.10	4.05	10.15	9.4 9.35	9.3 0.57	9.92	
3	6.9	7.1	7.2	7.15	4.00	11.15	1.	1.		
4			7.5		4.00	11.50				
5			7.7		4.00	11.70				
6			7.7		4.00	11.70				
7			7.8		4.00	11.80				
8			8.2		4.00	12.20				
9			8.2		4.00	12.20				
10		8.6	8.6	8.60	4.00	12.60				
11		8.9	8.9	8.90	4.00	12.90				
12		9.3	9.3	9.30	4.02	13.32				
13		9.4	9.4	9.40	4.02	13.42				
14		9.7	9.7	9.70	4.04	13.74				
15		9.9	10.0	9.95	4.05	14.00				

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Wednesday April 5, 1916

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Scale M

B Series to.

B 45414 — 133 K — 17 — 14 − 15.1 — alt corr. +.08

	sc.1	sc.2	sc.3		Curve	Magn.	g sc.2	h sc.2	Curve	Magn.	B.C. sc.2	Curve	Magn.
1	3.4	3.6	B		4.55	8.15	tp	7.2	1.00	8.20	8.1	−0.92	7.78
2	5.2	5.4	5.5	5.450	4.10	9.55	9.2	9.10	9.0	0.60	9.70	m.s.	
3	5.4	5.6	5.5	5.550	4.10	9.65	9.2	9.0	8.8	0.62	9.62		
4	5.8	6.0	5.9	5.950	4.06	10.01	9.6	9.40	9.2	0.56	9.96		
5	6.9	7.1	7.2	7.150	4.00	11.15	f.						
6		7.4			4.00	11.40							
7		7.1			4.00	11.70							
8		7.8			4.00	11.80							
9		7.6			4.00	11.60							
10		7.8	8.1	7.950	4.00	11.95							
11		8.6	8.5	8.550	4.00	12.55							
12		8.5	8.5	8.500	4.00	12.50							
13		8.8	8.8	8.800	4.00	12.80							
14		9.3	9.2	9.250	4.02	13.27							
15		8.9	9.0	8.950	4.01	12.96							
16		9.1	9.2	9.150	4.01	13.16							
17		9.3	9.3	9.300	4.01	13.31							
18		9.9	9.9	9.900	4.05	13.95							
19		10.0	10.0	10.000	4.05	14.05							

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Wednesday April 5, 1916 -

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Scale M

B Series 40.

* B45415 E6 14 40-45°. Ext corr -.12

						P.C.			
	Oc 1			Curve	magn.	Oc 2	Curve	magn.	
1	.			.		7.5	.	.	
2	.			.		7.6	.	.	
3	B.			.		7.6	.	.	
4	B.			.		8.21	-0.95	7.25	
5	B.			.		8.1	-0.95	7.15	
6	3.0	3.2		4.72	7.92	8.5	-0.94	7.56	
7	3.1	3.3		4.67	7.97	8.8	-0.92	7.88	
8	3.9	4.1		4.39	8.49	9.21	-0.90	8.30	
9	3.9	4.1		4.39	8.49	9.3	-0.89	8.41	
10	3.8	4.0	B.	4.43	8.43	9.4	-0.88	8.52	
11	4.0	4.2	4.5	4.35 ±1	4.32	8.67	. (nearly 2 ufs.)		
12	4.4	4.6	4.6	4.6000	4.25	8.85	9.8	-0.83	7.87 / 8
13	4.1	4.3	4.5	4.40 ±1	4.30	8.70	9.8	0.83	8.87
14	4.8	5.0	5.21	5.10 ±1	4.15	9.25	m.s.		
15	4.7	4.9	5.3	5.10 22	4.15	9.25	±.		
16	4.8	5.0	5.3	5.15 ±1	4.14	9.29			
17	5.4	5.6	5.7	5.65 01	4.09	9.74			
18	5.6	5.8	5.1	5.75 0±	4.08	9.83			
19	5.3	5.5	5.6	5.55 ±0	4.10	9.65			
20	5.8	6.0	6.0	6.00 00	4.05	10.05			
21	6.2	6.4	6.5	6.45 01	4.03	10.48			
22	5.8	6.0	6.1	6.05 01	4.05	10.10			
23	6.1	6.3	6.2	6.25 10	4.04	10.29			
24	6.3	6.5	6.5	6.50 00	4.02	10.52			
25	6.5	6.7	6.8	6.75 ±0	4.01	10.76			
26			7.2		4.00	11.20			

12:20
1:05

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Wednesday April 5, 1916.

Scale m

B series to.

B 4541 5 E6 cont. Alt cor. −.12

	sc.r	sc.r		Curve	Magn.
27	7.5			4.00	11.50
28	7.9			4.00	11.90
29	8.0			4.00	12.00
30	8.2			4.00	12.20
31	8.3			4.00	12.30
32	8.4	8.4	8.40 00	4.00	12.40
33	8.7	8.6	8.65 10	4.00	12.65
34	8.1	8.1	8.70 00	4.00	12.70
35	8.8	8.9	8.85 01	4.00	12.85
36	9.5	9.4	9.45 10	4.03	13.48
37	9.4	9.4	9.40 00	4.02	13.42
38	9.5	9.5	9.50 00	4.03	13.53
39	9.7	9.1	9.70 00	4.04	13.74
40	f.	f.			

* Only plate of series with sequence near the center of plate

Images circular !!

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1915phae.proj.10720

Wednesday April 5, 1916.

Scale m. B Series to.

B 45 415 E6 cont. Diffr Im. alt corr. -.12

	g sc.1	g sc.2	h sc.1	h sc.2			Curve	Curve magn.	magn.
Out of focus.	1	4.1	4.9	.	.	4.9	a.	4.18	.	.
	2	5.4	5.6	5.5	5.7	5.65	0 1	4.09	1.38	7.03
	3	5.1	5.3	5.5	5.7	5.50	2 2	4.10	.	.
	4	5.6	5.8	.	.	5.8	a.	4.08	1.32	7.12
	5	th.		th.	.	.		.	.	.
	6	.		6.4	6.6	6.6	. a	4.02	1.14	7.74
	7	6.6	6.8	6.6	6.8	6.80	0 0	4.00	1.10	7.90
	8	th		7.2		7.2	. a	4.00	1.00	8.20
	9	th		7.4		7.4	. a	4.00	0.95	8.35
	10	th.		th.	.			.	.	.
	11	8.1		7.7		7.90	2 2	4.00	0.83	8.73
	12	8.1		8.1		8.10	0 0	4.00	0.79	8.89
	13	8.1		8.1		8.10	0 0	4.00	0.79	8.89
	14	8.86		th.		8.6	a.	4.00	0.69	9.29
	15	8.5		8.6		8.55	1 0	4.00	0.70	9.25
	16	8.4		8.6		8.50	1 1	4.00	0.71	9.21
	17	9.3		def.?		9.3	a.	4.02	0.57	9.87
	18	9.2		9.1		9.15	0 1	4.01	0.60	9.75
	19	9.3		9.1		9.20	1 1	4.02	0.59	9.79
	20	9.6		9.3		9.45	2 1	4.03	0.56	10.00
	21	10.0	.	9.8		9.90	1 1	4.05	0.50	10.40
	22	f.		9.8		9.8	. a	4.04	0.50	10.30
	23	10.0		10.0		10.00	0 0	4.05	0.48	10.48
	24			f.						
	25									

1:50

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Monday April 10, 1916.

Plotted sheet 17

Scale m

B Series 39.

9.30 Arte B 45892 C9. 17 +15°.

	sc.1	sc.2		Diff.	P.C. sc.1	sc.2	Diff.
3	3.3	3.5		3.54	8.21		-1.16
3a	3.5	3.7		3.65	8.1		-1.35
4	3.6	3.8		4.02	8.9		-1.08
5	3.8	4.0		4.06	9.1		-1.04
6	4.3	4.5		3.97	9.6		-1.13
6a	4.5	4.7		3.94	10.0		-1.36
7	4.7	4.9	5.1	5.00 11 4.04	‡		
8	5.4	5.6	5.6	5.60 00 3.93			
8a	5.7	5.9	5.1	5.80 11 3.88			
9	6.3	6.5	6.2	6.35 12 3.74			
12	6.5	6.7	6.8	6.75 10 3.82			
14	6.8	7.0	7.1	7.05 11 3.74			
15			7.1		3.43		
16			7.8		3.80		
17			8.2		3.63		
18			8.6	8.1 8.65 01 3.76			
20			8.8	8.8 8.80 00 3.94			
21			9.3	9.3 9.30 00 3.76			
22			9.3	9.3 9.30 00 4.10			
23			9.9	9.9 9.90 00 3.84			
24			10.1?	10.0 10.05? 10 3.88?			
25			‡				
27			m.s.				

See list of plates to be omitted in measuring B plates.

All sequences of ~~cent~~ Series are off the centres of the plates

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Monday April 10, 1916.

Scale m. B Series 39.

	B 4539z			C9	Diff. Inn.
	g		h		
	sc.1	sc.2	sc.1 sc.2		Diff.
3	1		6.1 6.3	6.3 . a	0.74
4	t.f.		7.4	7.4 . a	0.42
5	t.f.		7.4	7.4 . a	0.66
6	'		7.6	7.6 . a	0.87
7	86		8.5	8.55 01	0.49
8	9.2		9.1	9.15 01	0.38
9	9.1		9.1	9.70 00	0.39
12	100		100	10.00 00	0.57
14	f		f.	.	.
6a	t.f.		8.1	8.1 . a	0.54
8a					
~~8.1~~ 8.9	.		8.9	8.9 . a	0.78
3a	t.f.		.		

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Copied B 343118

Scale m. B Series 39.

B 45393 40 Ks 17 51 − 29°. Alt corr + 0.6

						Diffr. Im.			P.C.
	pc.1	pc.2		Curve	magn.	q	h	Curve	Magn.	pc.2
1	5.1	5.3 5.5	5.40±1	3.99	9.39	tfp.	8.5° closest bit water.	0.55	9.05?	n.s.
2	5.6	5.8 5.6	5.70±1	3.94	9.64	tfp.	8.1	0.54	9.24	n.s.
3	6.6	6.8 6.7	6.75±1	3.80	10.55	.	sup.			
4	6.7	6.9 7.1	7.00±1	3.78	10.78	n.s	~~n.s.~~ f.			
5	6.9	7.1 7.2	7.15±0	3.77	10.92					
6		7.6		3.73	11.33					
7		7.8		3.72	11.52					
8		7.8		3.72	11.52					
9		8.2		3.70	11.90					
10		8.1	8.75±0 8.8	3.70	12.45					
11		9.2	9.20±0 9.2	3.70	12.90					
12		9.4	9.40±0 9.4	3.70	13.10					
13		9.8	9.80±0 9.8	3.73	13.53					
14		9.9	9.95±0 10.0	3.74	13.69					
15		n.s.	n.s.							
16										

Diffr Im. elongated.

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Scale m

B Series 39.

B 45394 42 KS 18 10 - 28.1 Corr. +.07

Diffr. Im. P.C.

	sc.1	sc.2	sc.?	Curve	Magn.	g	h	Curve	Magn.	sc.2	Curve	Magn.
1	3.6	3.8		4.22	8.02	f.	1.4	0.67	8.07	8.1 faint.	-1.12	7.58 g
2	3.8	4.0 B.		4.19	8.19	f.	1.6	0.64	8.24	9.4	-1.07	8.33
3	5.6	5.8	5.7	5.75 o1	3.94	9.89 6	sup?	9.21	0.52	9.72	m.s.	
4	6.26	6.4	6.21	6.30 12	3.86	10.16	9.?	9.55 12	9.4	0.52	10.07	
5		7.3			3.75	11.05	f.	f.				
6		8.1			8.70 3	11.80						
7		8.3			3.70	12.00						
8		8.5	8.6	8.55 10	3.70	12.25						
9		8.6	8.7	8.65 01	3.70	12.35						
10		8.6? faint	8.7 faint	8.65? 01	3.70	12.35?						
11		9.1	9.0	9.05 10	3.70	12.75						
12		9.3	9.3	9.30 00	3.70	13.00						
13		9.8	9.9	9.85 01	3.74	13.59						
14		f	f									
15		f.	f									
16												
17												
18												

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Scale m.

B Series 39.

B 45395 43Ks 18. 13-18.5 Alt. corr. +.09

	sc.1	sc.2	Curve	magn.	q	sc.1 / sc.2	Curve	magn.	sc.2	Curve	magn.
					Differt mv.					Q.C.	
1	B.				~~bff.~~	~~6.2~~ 5.1 / 5.3 w.s.	.	.	7.3	.	.
2	B.				.	6.5? 6.7?	0.78	7.48?	8.2	−1.08	7.12
3	B.	B.			.	sc 2 8.21	0.58	8.78	8.1?	−1.12	7.58?
4	4.1	4.3	4.6	4.45.2 4.11	8.56	tfr. 8.9	0.53	9.43			
5	5.6	5.8	5.8	5.80 00 3.93	9.73	9.5	9.45 10 9.4	0.52	9.97		
6		1.2	1.1	7.10 00 3.77	10.87	9.9	9.90 00 9.9	0.53	10.43		
7		1.1	1.2	7.15 00 3.76	10.91	t	t.				
8		1.8	1.8	7.80 00 3.72	11.52						
9		8.4	8.4	8.40 00 3.70	12.10						
10		8.8	8.9	8.85 01 3.70	12.55						
11		9.2	9.3	9.25 01 3.70	12.95						
12		9.9	9.9	9.90 00 3.74	13.64						
13		t.	t.								
14											
15											
16											

Images on this plate are poor. Do not compare well with scale. "q" images are too poor to measure.

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Scale M.

13 Series 39.

B4539 b. 44 KS 18 33 −12.8 Alt. corr. +.08

	sc 1	sc 2	sc 3	Curve	magn.	Diffr. Dom. g sc 2	sc 1	Curve	magn.	G.C. sc 2	Curve	magn.
1	3.5	3.7		4.23	7.93	h.	5.9 6.1	0.90	7.00	8.2	−1.08	7.12
2	4.2 low	4.4 B.		4.12	8.52	.	sc 2 7.6	0.64	8.24	9.6 9.55 o2	−1.02	8.53?
3	5.1	5.3	5.30 oo	4.00	9.30	.	8.5	0.55	9.05	9.9	−0.95	8.95
4	5.6	5.8	5.7	3.94	9.69	.	8.9	0.53	9.43	n.s.		
5	6.2	6.4	6.5 6.45 o1	3.84	10.29	tf.	9.8	0.53	10.33			
6		7.3	7.35 o1 7.4	3.75	11.10	ns	n.s.					
7		7.3	7.30 oo 7.3	3.75	11.05							
8		8.2	8.20 oo 8.2	3.70	11.90							
9		8.8	8.75 o1 8.7	3.70	12.45							
10		9.3	9.30 oo 9.3	3.70	13.00							
11		10.0	9.85 o1 9.7	3.74	13.59							
12		t.	10.1? t.	3.75	13.85?							
13		t.										
14												
15												

Star 7 appears slightly brighter than star 6.
7 is red?

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Monday April 10, 1916.

Plotted sheet 17

Scale m. B Series 39.

B 45397 C10 19 + 15°.

		sc.1	sc.2	Diff.	B.C. sc.1	sc.2	Diff.
1	B.				7.8		-0.96
2	3.1	3.3		4.11	8.6		-1.19
3	B.				8.3		-0.96
4	3.2	3.4		4.44	8.9		-1.06
(Mk ? fac.) 6	3.5	3.7		4.80	th.		
7	3.6	3.8	B.	4.49	9.5		-1.21
8	4.6	4.8	5.1	4.95 :1	9.1		-0.60
9	4.8	5.0	5.2	5.10 :1	10.0		-0.60
10	5.1	5.3	5.5	5.40 :1	n.s.		
11	5.7	5.9	5.9	5.90 00			
12	6.5	6.7	6.5	6.60 :1			
13	6.9	7.1	7.1	7.10 00			
15		7.6					
16		7.8	7.80 00	7.8			
17		8.4	8.30 :1	8.2			
nearly sup. 18		8.1	8.70 00	8.1			
19		9.2	9.20 00	9.2			
20		9.3	9.40 :1	9.5			
21		10.0	10.50 00	10.0			
22		n.s.	n.s.				
24		n.s.					
b		8.1		3.80			
l		9.1		3.39			

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Scale m. B Series 39

B 45 397 cont. C 10

	g		h		
1	sc.1	sc.2	sc.1	sc.2	Diff.
1	.		5.1	5.9	0.94
2	.		6.5	6.7	0.71
3	.		6.2	6.4	0.94
4	.		6.9	7.1	0.74
dbl? 6	.		.	.	.
7	.			7.6	0.69
8	.			8.5	0.60
9	9.1		9.00 12	8.9	0.40
10	.			9.1	0.59
11	.			9.6	0.44
12	.			10.0	0.49
13	.			n.s.	
15					

"g" images are very poor.

curve mag from rel. mag curve

curve
+4.39
4.43
4.51
4.67
4.69
4.69
4.56
4.67
4.73
4.71
4.73
4.50
4.54
4.49
4.38
4.18
4.14
4.14
4.06
3.90
3.73

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Scale m. B Series 39-

B 45398 | 7 3 | 20 − 75.0 | alt. corr. −.32

Curve + magn. from rel. magn. curve	Diff. for Rel magn			sc.1	sc.2	Curve	magn.	P.C. sc.2	Curve	magn.	Diff. for Rel Magn	Curve magn. (Rel)	magn. (Rel)
	dbl.	..	1	.				dbl.			.	dbl.	dbl.
	near edge	..	2	B.				+fr.			.	q.	q
	..	..	3	B.				8.5	−1.10	7.40	−1.09	−1.08	7.42
	.	..	4	B.				8.3	−1.10	7.20	−1.10 0.00	−1.09	7.21
curr.	magn.												
+4.39	7.49	+4.28	5	2.9	3.1	4.34	7.44	8.5	−1.10	7.40	−1.12	−1.08	7.42
4.43	7.65	4.68	6	3.0	3.2	4.32	7.52	8.8	−1.12	7.68	−1.00 0.80	−1.05	7.75
4.51	7.91	4.25	7	3.2	3.4	4.29	7.69	8.7	−1.12	7.58	1.05	−1.06	7.64
4.67	8.47	3.92	8	3.6	3.8	4.22	8.02	8.7	−1.12	7.58	0.98	−1.06	7.64
4.69	q	..	9	+fr.		.	.	9.2	−1.10	8.10	0.91	−1.03	8.17
	B	..	10	B.		.	.	9.3	−1.09	8.21	1.20	−1.02	8.28
4.69	8.59	4.20	11	3.1	3.9	4.20	8.10	9.2	−1.10	8.10	1.10	−1.03	8.17
4.56	8.05	4.96	12	3.3	3.5	4.27	7.77	9.3	−1.09	8.21	0.84	−1.02	8.28
4.67	8.47	5.05	13	3.6	3.8	4.22	8.02	9.9	−0.95	8.95	1.05	−0.98	8.92
4.73	8.83	4.84	14	3.9	4.1	4.17	8.27	9.9	−0.95	8.95	0.96	−0.98	8.92
4.71	9.11	4.78	15	4.2	4.4	4.12	8.52	m.s.					
4.73	9.03	4.91	16	4.1	4.3 B.	4.13	8.43						
4.50	9.70	4.38	17	5.1	5.3 5.1	5.20	12	4.00	9.20				
4.54	9.64	4.70	18	4.9?	5.1 thin 5.1	5.10	?00	4.02	9.12?				
4.49	9.74	4.61	19	5.1	5.3 5.2	5.25	10	4.00	9.25				
4.38	9.98	4.37	20	5.3	5.5 5.1	5.60	11	3.95	9.55	m.s.			
4.18	10.43	4.08	21	6.1	6.3 6.2	6.25	10	3.87	10.12				
4.14	10.49	4.08	22	6.2	6.4 6.3	6.35	01	3.85	10.20				
4.14	10.49	4.15	23	6.2	6.4 6.3	6.35	01	3.85	10.20				
4.06	10.66	4.17	24	6.4	6.6 6.6	6.60	00	3.82	10.42				
3.90	11.00	3.89	25		7.1			3.77	10.87				
3.73	11.33	3.72	26		7.6			3.73	11.33				

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Scale m. B Series 39.

B 45 398 f3 cont.

					Curve	magn.	Curve (rel)	Magn. (rel.)		
Diff for Rel Magn.			sc. 2							
+3.73	27	7.6	7.7	7.65 01	3.72	11.37	~~0.75~~	~~8.40~~	3.72	11.37
3.57	28	7.9	8.1	8.00 11	3.70	11.70	0.71	8.71	3.65	11.65
3.54	29	8.2	8.3	8.25 01	3.70	11.95	~~0.68~~	~~8.93~~	3.60	11.85
3.66	30	8.2	8.2	8.20 00	3.70	11.90	0.69	8.89	3.61	11.81
3.60	31	8.8	8.4	8.60 22	3.70	12.30	0.60	9.20	3.55	12.15
3.45	32	9.2	9.2	9.20 00	3.70	12.90	0.45	~~9.65~~	3.49	12.69
3.57?										
I'm very sharp.	33	9.2?	9.3	9.25? 01	3.70	12.95?	~~0.44~~	~~9.69?~~	3.49	12.74?
3.52	34	9.2	9.3	9.25 01	3.70	12.95	~~0.44~~	~~9.69~~	3.49	12.74
3.37	35	9.3	9.6	9.45 22	3.70	13.15	~~0.37~~	~~9.82~~	3.47	12.92
3.53	36	9.7	9.6	9.65 10	3.71	13.36	~~0.32~~	~~9.97~~	3.46	13.11
3.41	37	10.0	9.9	9.95 02	3.74	13.69	~~0.23~~	~~10.18~~	3.44	13.39
	38	?	?							
	39		m.s.							

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Monday April 10, 1916.

Salem. B Series 39.

B45398 q3 20 − 15. Diff. Im. act corr. −.32

		q sc1	q sc2	h sc1	h sc2		Curve Magn.	Diff. for Rel. Magn.	Curve (rel)	Magn (rel.
dose dbl.	1									
	2	4.9	5.1		5.1 a.			+0.79	0.85	5.95
ff curve	3								~~0~~	
"	4			+f.					qf	qf
"	5			6.3	6.5	6.5 a. 0.80	7.30	+0.88	0.80	7.30
	6	+f.			7.1	7.1 a. 0.70	7.80	0.78	0.78	7.88
"	7				7.1	7.1 a. 0.70	7.80	0.55	0.78	7.88
"	8									
"	9				7.6	7.6 a. 0.64	8.24	0.69	0.75	8.35
	10	7.2			7.2	7.20 00 0.70	7.90	0.90	0.78	7.98
	11	+f.			+f.				qf	qf
	12	+f.			+f.				qf	qf
	13	8.1			8.1	8.10 00 0.59	8.69	0.75	0.70	8.80
	14	8.4			8.4	8.40 00 0.55	8.95	0.54	0.64	9.04
	15	8.6			8.6	8.60 00 0.55	9.15	~~0.03~~ 0.58	0.60	9.20
	16	8.6			+/2	8.6 a. 0.55	9.15	0.61	0.60	9.20
	17	8.1			8.9	8.80 ± 1 0.54	~~8.34~~ 9	0.78	0.55	9.35
	18	9.4			9.1	9.55 ± 1 0.52	10.07	+ 0.35	0.34	9.89
	19	9.1			9.4	9.55 ± 1 0.52	10.07	+ 0.31	0.34	9.89
	20	10.0			sup.	10.0 a. 0.54	10.54	−0.03	0.21	10.21
	21	+.			9.9	9.9 a. 0.53	10.43	+043	0.25	10.15
	22				10.0	10.0 a. 0.54	10.54	043	0.31	10.21
	23				m.s.					

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Scale M. B Series 39.

B 45 399 159 K 19 24-30.0 Dclt. corr. +.06

	sc.1	sc.2	sc.2	Curve	Magn.	Diffs. q	Curve	Magn.	P.C. sc.2	Curve	Magn.
1	3.5	3.7		4.23	7.93	7.4 7.4	0.67	8.07	9.2	-1.10	8.10
2	4.2	4.4	3.	4.12	8.52	f.p. 8.3	0.57	8.87	9.8	-0.97	8.83
3	4.9	5.1	5.2	5.15 +0	4.01	9.16	f.p. 9.1	0.52	9.62	f.	
4	5.1	5.3	5.3	5.30 00	4.00	9.30	f.p. 9.2	0.52	9.72		
5	5.9	6.1	6.1	6.10 00	3.89	9.99	9.8 9.85 -0.1 9.9	0.52	10.37		
6	6.1	6.3	6.2	6.25 +0	3.86	10.11	f. f.				
7	6.6	6.8	6.5	6.65 2-	3.82	10.47					
8	6.6	6.8	6.5	6.65 2-	3.82	10.47					
9	6.9	7.1	7.1	7.10 00	3.77	10.87					
10		7.4	7.2	7.30 2-	3.75	11.05					
11		7.8	7.8	7.80 00	3.70	11.50					
12		8.1	8.1	8.10 00	3.70	11.80					
13		8.6	8.7	8.65 01	3.70	12.35					
14		8.9	9.1	9.00 -1	3.70	12.70					
15		9.8	9.9	9.85 01	3.73	13.58					

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Monday April 10, 1916.

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Scale m. B Series 89.

B 45400 E8 20 −45° Det. corr. + .02

					P.C.		
	sc.1	sc.2	Curve	Magn.	sc.1	sc.2 Curve	Magn.
1	B.				8.8	−1.12	7.68
2	B.				8.1	−1.12	7.58
3	B.				8.8	−1.12	7.68
4	B				8.3	−1.10	7.20
5	B.				sup.		
6	4.3	4.5	4.10	8.60	9.6	−1.01	8.59
7	3.4	3.6	4.25	7.85	8.8	−1.12	7.68
8	B.				9.4	−1.07	8.33
9	4.1	4.3 3.	4.14	8.44	9.5	−1.04	8.46
10	4.3	4.5 4.6 w.s.	4.55 ±0	4.10 8.65	10.0	−0.93	9.07
11	4.1	4.9 4.9	4.90 00	4.04 8.94	9.9	−0.95	8.95
12	4.1	4.9 5.0	4.95 ±0	4.04 8.94	10.0	−0.93	9.07
13	4.1	4.9 5.2	5.05 ±2	4.02 9.07			
14	5.1	5.3 5.3	5.30 00	4.00 9.30			
15	5.5	6.7 5.6	5.65 10	3.95 9.55			
16	5.2	5.4 5.6	5.50 ±1	3.97 9.47	m.s.		
17	5.6	5.8 5.8	5.80 00	3.92 9.72			
18	5.7	5.9 5.9	5.90 00	3.91 9.81			
19	6.6	6.8 6.8	6.80 00	3.80 10.60			
20	6.5	6.7 6.9	6.80 ±1	3.80 10.60			
21	6.6	6.8 7.1	6.95 ±1	3.79 10.74			
22	6.8	7.0 7.2	7.10 ±1	3.77 10.87			
23		7.6		3.72 11.32			
24		7.9		3.70 11.60			
25		8.0		3.70 11.70			
26		8.4		3.70 12.10			

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Monday April 10, 1916.

Scale M

B Series 39.

B 45400 E 8 20 -45° Ext. corr +.02

	scr	ecr		Curve	Magn.
27	8.6	8.6	8.60 00	3.70	12.30
28	8.6	8.5	8.55 01	3.70	12.25
29	8.7	8.7	8.70 00	3.70	12.40
30	8.8	8.9	8.85 01	3.70	12.55
31	8.8	8.9	8.85 01	3.70	12.55
32	8.9	9.2	9.05 12	3.70	12.75
33	9.2	9.2	9.20 00	3.70	12.90
34	9.4	9.4	9.40 00	3.70	13.10
35	9.7	9.7	9.70 00	3.72	13.42
36	7.	7			

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Monday April 10, 1916.

Scale M B Series 39.

B 45400 cont E 8 Diffr. Images. Alt. corr. +.02

	g sc.1	g sc.2	h sc.1	h sc.2		Curve	magn.
1			6.8	7.0		0.72	7.72
2			~~6.36~~	6.9		0.79	7.64
3				7.3		0.69	7.99
4			6.3	6.5		0.81	7.31
5				7.4		0.67	8.07
6				th.			
7				th.			
8				7.1		0.63	8.33
9		th.		7.6		0.64	8.24
10		8.4		8.4	8.40 .0	0.56	8.96
11				8.2		0.58	8.78
12				8.4		0.56	8.96
13				8.2		0.58	8.78
14				8.8		0.53	9.33
15		th.		8.9		0.53	9.43
16		8.8		8.8	8.80 .0	0.53	9.33
17				9.2		0.52	9.72
18				9.3		0.51	9.81
19				f.			
20				f.			
21				10.0?		0.53	10.53?
22		n.s.		n.s.			

g images too much elongated to compare with scale.

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Jesse M-

B Series 39.

B 45401 136 K

@ Cl corr +.08

	sc.1	sc.2	sc.3	Curve	Magn.	Diffr. Im. g h	Curve	Magn.	Q.C. sc.2	Curve	Magn.
1	B.	B.		.	.	tip 7.8	0.61	8.41	9.5	-1.04	8.46
2	4.7	4.9 4.6	4.75	1.3	4.06	8.81	tip 7.8	0.61	8.41	9.6	-1.01	8.59
3	5.7	5.9 5.8	5.85	1.0	3.92	9.77	9.2 9.20 9.2	0.52	9.72	n.s.		
4	5.9	6.1 6.0	6.05	1.0	3.90	9.95	9.7 tread of Serpt	0.52	10.22			
5		7.2			3.76	10.96	n.s. n.s.					
6		7.9	7.90	9.9	3.70	11.60						
7		8.3	8.35	8.4	3.70	12.05						
8		8.7	8.70	8.7	3.70	12.40						
9		9.2	9.20	9.2	3.70	12.90						
10		9.5	9.50	9.5	3.71	13.21						
11		9.9	9.95	10.0	3.74	13.69						
12		10.0			13.75	13.75						
13												
14												
15												

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Monday April 10, 1916.

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Scale m-

B Series 39.

B45402 160 K 20 26 - 30.0 Obt. corr +.06

						g	h				P.C.		
	sc.1	sc.2		Curve	Magn.	sc.2	sc.2	Curve	Magn.		sc.2	Curve	Magn.
1	B.	B.		·	·	th.	7.6	0.64	8.24		9.3	-1.09	8.21
2	4.9	5.1 5.3	5.20 ±1	4.00	9.20	th.	8.6	0.55	9.15		n.s.		
3	5.1	5.3 5.3	5.30 00	4.00	9.30	9.1	9.1000 9.1	0.52	9.62		n.s.		
4	6.1	6.3 5.9	6.10 2±	3.89	9.99	9.7	9.75±.0 9.8	0.52	10.27				
5	6.4	6.6 6.5	6.55 01	3.83	10.38	‡	‡.						
6	6.9	7.1 7.1	7.10 00	3.77	10.87								
7		7.3		3.75	11.05								
8		7.6		3.73	11.33								
9		7.8		3.72	11.52								
10		8.2		3.70	11.90								
11		8.5	8.45 10 8.4	3.70	12.15								
12		8.8	8.85 01 8.9	3.70	12.55								
13		9.2	9.10 1± 9.0	3.70	12.80								
14		9.5	9.50 00 9.5	3.71	13.21								
15		10.0	10.00 00 10.0	3.75	13.75								

1:05

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Wednesday April 12, 1916.

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Shot no 37

Scale M. 2.05

Sc measures of AK T' plate.

AK 196 South Pole. } E 6

Ref	South Pole Seq.		sc.1	sc.2	sc.3	Diff	Cu	Magn
		a	4.9	5.1	5.0 5.05 ±0	0.73	0.92	5.97
		b	5.6	5.8	5.1 5.75 0±	0.91	0.76	6.51
		c	6.1	6.3	6.1 6.20 1±	0.68	0.68	6.88
		d	6.5	6.7	6.8 6.75 ±0	0.61	0.57	7.32
		e	6.5	6.7	6.9 6.70 00	0.63	0.58	7.28
		f			7.3 7.35 ±0 7.4	0.39	0.49	7.84
		g			8.9 7.6 w.s. 7.60 00 7.6	0.50	0.48	8.08
		h			7.9 7.95 ±0 8.0	0.47	0.53	8.48
		k			8.3 8.20 1± 8.1	0.73	0.60	8.80
		l			8.6 8.60 00 8.6	0.59	0.76	9.36
		m			8.7 8.75 ±0 8.8	0.88	0.82	9.57
		n			8.9 8.90 00 8.9	0.86	0.89	9.79
not comp: with scale }		o			9.1 9.10 00 9.1	1.09	1.00	10.10
		p			9.4 9.45 01 9.5	1.18	1.16	10.61
		q			9.4 9.60 2± 9.8	1.15	1.27	10.87
close dble. {		r			9.7 9.70 00 9.7	1.36	1.33	11.03
		s			9.7 9.70 00 9.7	1.67	1.33	11.03
		t			9.9 9.95 ±0 10.0	1.43	1.52	11.47
		u			f f			

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Wednesday April 12, 1916.

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Plotting sheet 69.

Scale m Sc. measure of AK-T' plate.

QK 196 cont. Slaw. Region 14 40-45°. EC

	sc.1	sc.2	sc.3		Cu	T' superseded Magn	Diff.	Rel. Cou.	Rel. Magn.
1	4.6	4.8					~~1.88~~	~~1.37~~	6.17 e
2	5.3	5.6			0.83	6,33	1.18	1.30	6.80
3	5.3	5.5	5.6	5.55±0	0.81	6,36	1.14	1.28	6.83
4	5.6	5.8	5.8	5.80 00	0.76	6,56	1.27	1.22	7.02
5	5.1	5.9	5.9	5.90 00	0.74	6.64	1.35	1.19	7.09
6	6.3	6.5	6.6	6.55±0	0.62	7.17	1.03	1.05	7.60
7	6.9	7.1	6.9	7.00 1/2	0.53	7,53	0.78	0.97	7.97
8		7.4	7.40 00	7.4	0.48	7,88	0.92	0.92	8.32
9		7.3	7.30 00	7.3	0.50	7,80	0.97	0.93	8.23
10		7.4	7.40 00	7.4	0.48	7,88	1.08 2	0.92	8.32
11		7.9	7.85 10	7.8	0.52	8,37	0.99	0.89	8.74
12		8.1	8.10 00	8.1	0.57	8,67	0.80	0.87	8.97
13		8.1	8.10 00	8.1	0.57	8,67	0.88	0.87	8.97
14		8.4	8.45 01	8.5	0.70	9,15	0.99	0.84	9.29
15		8.4	8.40 00	8.4	0.66	9,06	0.93	0.85	9.25
16		8.6	8.55 0 2	8.5	0.74	9,29	0.77	0.84	9.39
17		8.8	8.85 01	8.9	0.85	9,70	0.81	0.82	9.67
18		8.9	9.00 1 1	9.1	0.93	9,93	0.77	0.82	9.82
19		8.8	8.90 1 1	9.0	0.88	9,78	0.90	0.82	~~9.72~~ 9.82
20		9.2	9.25 01	9.3	1.05	10,30	0.85	0.81	10.06
21		9.5	9.65 1 2	9.8	1.30	10,95	0.86	0.81	10.46
22		9.5	9.65 1 2	9.8	1.30	10,95	0.78	0.81	10.46
23		9.6	9.85 1 1	9.8	1.35	11.05	0.84	0.81	10.51
24		9.9	9.90 00	9.9	1.50	11.40	0.74	0.81	10.71
25		f.	f.						

2:26.

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Tuesday April 18. 1916.

Plotted sheet 17

Scale m

B Eris 31.

9 40

B44983 C8.

	sc.1	sc.2	sc.3	Diff.	P.C. sc.1	sc.2	sc.3		Diff.
1	B.				8.6	8.6	8.6	8.6000	-1.40
3	B.					9.3	9.1	9.20 1	-1.11
4	~~8.1~~ ? ws.				9.2?	9.1	9.0	9.0510	-1.38
8	3.6	3.8		5.17	8.1	f.	f.		
9	3.1	3.9		5.32					
11	3.6 ~~4.0~~	3.8 B.		5.71	f.				
12	4.4 ~~3.6~~	~~4.0~~ 4.6 4.7		4.6501 5.10					
14	5.8	6.0 f.		3.97					
15	5.9	6.1	5.9	6.00 1 4.36					
16	6.1	6.3	6.2	6.2510 4.27					
18	6.1	6.3	6.4	6.3510 4.33					
21		7.1	7.65 1 0 1 6	3.77					
22		7.9	8.00 1 1 8.1	3.82					
25		8.5	8.50 0 0 8.5	3.76					
26		8.9	9.05 1 2 9.2	3.68					
27		9.2	9.20 9.2 0 0	4.11					
28		f.	100?	3.86?					
29		ms.	f.						

Im. elongated.

Images are very poor. Appear large + hazy.

See list of plates to be omitted for Arequipa plates. Sequence is in center of plate.

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Tuesday April 18, 1916,

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Scale m. B Series 31.

B 4498 6 204 K 16 2 - 75.1 Alt. corr — 31

	sc.1	sc.2		Curve	Magn.	B.C. sc.2	sc.2	Curve	Magn.
1	B.			.	.	9.21	9.20 9.2	-1.00	8.20
2	B.			.	.	8.8 w.s.	9.21	-1.00	8.20
3	3.21	3.4 B.		5.95	9.35	? 10.0?	-0.44 very ft.		9.56?
4	4.8	5.0 5.1	5.05 01	5.02	10.07				
5	6.5	6.7 6.4	6.55 1/2	4.26	10.81				
6		7.5		3.89	11.19				
7		7.6		3.88	11.48				
8		8.21		3.76	11.96				
9		8.4		3.75	12.15				
10		8.5		3.75	12.25				
11		8.1	8.75 ± 0 8.8	3.76	12.51				
12		9.1	9.05 9.0 1 0	3.81	12.86				
13		9.3	9.40 9.5 1 1	3.94	13.34				
14		9.1	9.80 9.9 1 1	4.13	13.93				
15		9.9	9.95 10.0 ± 0	4.21	14.16				
16		10.0?	10.05? 01 10.1	4.28	14.33?				

Bright stars large — hazy.

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Tuesday April 18, 1916.

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Scale m

B Series 31.

B4498 | 36 Ks | 16 29 - 24.1 | Det. corr +.05

P.C.

	sc.1	sc.2	sc.2	Curve	Magn.	sc.2	sc.2	Curve	Magn.
1	3.9	4.1	B.	5.57	9.67	9.9	9.9	9.90 .00 −0.50	9.40
2	5.8	6.0	6.1	6.05 .01	4.50	10.55	m.s.	m.s.	
3	6.1	6.3	6.2	6.25 .10	4.40	10.65			
4	6.9	6.9	6.9	6.90 .00	4.10	11.00			
5		7.6			3.87	11.37			
6		7.6			3.87	11.47			
7		7.7	7.70	7.1 .00	3.84	11.54			
8		8.8	8.75	8.7 .1	3.76	12.51			
9		8.7	8.70	8.7 .00	3.76	12.46			
10		8.8	8.75	8.7 .1	3.76	12.51			
11		9.1	9.15	9.2 .1 .0	3.85	13.00			
12		9.3	9.35	9.4 .1 .0	3.90	13.25			
10a		9.4	21 9.25	9.3 .0 .1	3.88	13.13			

Bright stars large.

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Tuesday April 18, 1916.

Plotted sheet 17

Scale m

B series 31.

B 44988 C9. 17 +15°

		Sc.1	Sc.2	Diff.	Sc.1	Sc.2		Diff.
3a	3 B.			.	8.3	8.4	8.35 ± 0	−1.31
	4 B.			.	8.1	8.1	8.70 00	−1.35
	5 B.			.	9.1	8.9	9.00 ±	−1.18
	6 B			.	9.2	9.1	9.15 0±	−1.09
6a	B.			.	9.3	9.3	9.30 00	−0.53
	7	2.9?	3.1?	5.94?	9.3	9.7	9.50 ±?	−0.86
	8	3.1	3.3	6.23	7?	7.	.	.
8a		3.1	3.3	6.38	10.0?	10.1?	10.05? 01	−0.52?
	9	4.3	B.4.5	5.59	10.0	10.0	10.00 00	−0.32
	12	5.3	5.5 5.5	5.50 00 5.07				
	14	6.1	6.3 6.1	6.20 ± 4.59				
	15		7.2	8 w.s 3.93				
	16		7.6	7.1 7.65 0 3.95				
	17		8.2	8.2 8.20 00 3.63				
	18		8.1	8.1 8.70 00 3.71				
	20		9.1	9.2 9.15 ±0 3.61				
	21		9.1	9.2 9.15 ±0 3.91				
	22		9.3	9.3 9.30 00 4.10				
	23		9.5	9.7 9.60 ±1 4.14				
	24		9.7	9.9 9.80 ±1 4.13				
	25		9.9	9.9 9.90 00 4.23				
	27		7.	m.s				

first meas. of wrong star

Images of bright stars large.

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1915phae.proj.10720

Tuesday April 25, 1916.

Plotted sheet 18

Scale m. B Series 31.

11- B 4½ 988 Cg. 17 +15°

	pc 1	sc 2	Diff.	P.C. sc.1	sc 2	sc.2	Diff.
3			.	8.21	8.4	8.30 ±1	-1.26
3a			.	8.7	8.7	8.70 00	-1.35
4			.	9.1	9.0	9.05 ±0	-1.23
5			.	9.21	9.21	9.20 00	-1.14
6			.	9.5	9.3	9.40 ±1	-0.93
6a			.	9.6	9.7	9.65 01	-1.01
7			.	‡			
8	+fr.		.	10.0		10.0 @	-0.47
8a	+fr.		.	10.1	10.0	10.05 ±0	-0.37
9	+fr.		.				
12	5.2	5.7 5.8?	5.75? ±0	4.82?			
14	6.1	6.3 6.5	6.40 ±1	4.39			
15		7.2		3.93			
16		7.9		3.70			
17		8.2		3.63			
18		8.1		3.71			
20		9.1	9.00 ±1 8.9	3.76			
21		9.1	9.15 ±0 9.2	3.91			
22		9.3	9.30 00 9.3	4.10			
23		9.6	9.65 01 9.7	4.09			
24		9.9	9.90 00 9.9	4.03			
25		‡	‡				
27							
28							
29							
30							

Images of bright stars are very large and ~~ate~~ hazy.

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Tuesday April 25, 1916.

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Scale m- B Series 31-

B 44989 E6 14 40-45° altcorr -.25

P.C.

	sc.1	sc.2		Curve	magn.	sc.1	sc.2		Curve	magn.
1						1.6	1.8	7.70 ⊥'	.	.
2						8.1	8.0	8.05 10	-1.26	6.79
3						8.1	8.1	8.10 00	-1.25	6.85
4						8.6	8.5	8.55 01	-1.19	7.36
5						8.8	8.1	8.75 01	-1.13	7.62
6						8.8			-1.12	7.68
7						9.2			-1.00	8.20
8						9.6			-0.81	8.79
9						9.1			-1.03	8.07
10	.					9.1			-0.72	8.98
11	3.6?	3.8?		~~5.11~~	.	9.9			-0.53	9.37
12	3.6?	3.8?		~~5.11~~	.	v.f.				
13	4.2	4.4		.	.	sup?				
14	4.9	5.1	5.10 00	~~4.96~~	10.06	f.				
15	3.8?	4.0? 4.1	4.05 01	.	.					
16	f.p.	.		.	.					
17	f.p.	.		.	.					
18	4.8	5.0 5.1	5.05 01	5.00	10.05					
19	5.1	5.3 5.3	5.30 00	4.86	10.16					
20	5.2	5.4 5.5	5.45 01	4.80	10.25					
21	5.8	6.0 6.1	6.05 01	4.50	10.55					
22	5.1	5.9 6.1	6.00 ⊥'	4.52	10.52					
23	5.8	6.0 6.1	6.05 01	4.50	10.55					
24	6.1	6.3 6.2	6.25 10	4.41	10.66					
25	6.2	6.4 6.4	6.40 00	4.35	10.75					
26	6.9	7.1 7.1	7.10 00	4.09	11.19					

does not compare with scale

Sequence not in center of plate

Star Im. cont.

	sc.1	sc.2		Curve	magn.
27	1.5	3.96			11.46
28	8.1	3.78	81		11.91
29	8.2	3.87	80		12.00
30	8.4	3.75	8		12.18
31	8.6	3.76			12.36
32	8.6	3.76			12.36
33	8.9	3.80			12.70
34	8.8	3.79			12.59
35	8.9	3.80			12.70
36	9.5	9.45 10 9.4		3.99	13.44

	sc.1	sc.2		Curve	magn.
37	9.3	9.25 10 9.2		3.90	13.15
38	9.5	9.45 10 9.4		3.99	13.44
39	9.7	9.70 00 9.7		4.10	13.80
to	9.9	9.90 00 9.9		4.20	14.10
41	f.	n.s.			

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Scale m.

B Series 31-

B 44990 43 KS. 18 13 - 18.5 Zet corr +.12

P.C.

	pc.1	pc.2		Curve	magn.	pc.1	pc.2		Curve	magn.
1	B.					13	7.1	7.20 12	.	.
2	B.					84	83	8.35 02	−1.21	7.14
3	3.3	3.5		.		9.8	9.5	9.65 21	−0.78	8.87
4	3.7	3.9	B.	.		99	99	9.90 00	−0.51	9.39
5	4.8	5.0	5.1 5.05 01	5.00	10.05	mes.				
6	6.1	6.3	6.1 6.20 12	4.43	10.63					
7	6.1	6.3	6.1 6.20 12	4.43	10.63					
8	7.0	7.2	7.1 7.15 02	4.08	11.23					
9		8.2	8.2 8.20 00	3.80	12.00					
10		8.3	8.4 8.35 10	3.78	12.13					
11		8.9	8.8 8.85 10	3.80	12.65					
12		9.4	9.5 9.45 01	3.99	13.44					
13		mes.	mes.							

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Scale m- B Series 31- Copied 45! 129

*B44993 R J Cor. Aust. 18 36 - 37.5° Alt corr +.09

B.C.

	sc.1	sc.2	Curve	Magn.	sc.1/sc.2	Curve	Magn.
a	tfr.				93?	−0.98	8.32?
b	tfr.				?.		
c	5.1? v.f.	5.3 2 8.22	5.25? 10	4.89			10.14?
d	5.4	5.6	55	5.55 02	4.75		10.30
e	5.9	6.1	5.9	6.00 12	4.52		10.52
f	5.9	6.1	5.9	6.00 12	4.52		10.52
g	6.5	6.7	6.5	6.60 12	4.28		10.88
h		7.1			4.10		11.20
fe		7.2			4.05		11.25
l		7.3			4.02		11.32
m		8.1	8.1	8.10 00	3.81		11.91
n		8.2	8.2	8.20 00	3.80		12.00
o		8.1	8.1	8.10 00	3.77		12.47
fr		8.1	8.1	8.10 00	3.77		12.47
q		9.1	8.9	9.00 12	3.84		12.84
r		9.1	9.1	9.10 00	3.87		12.97
s		9.4	9.4	9.40 00	3.97		13.37
t		99	9.9	9.90 00	4.20		14.10

Var. ms.

* Sequence is not in centre of plate, but "measure" H.S.L.
x Bright stars are very poor.

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Plotted sheet 18

Scale m. B Series 31-

B 44994 C 10 .19 +15° 30s Underexposed.

P.C.

	pc.1	pc.2	Diff. +.04 (corr. for underexposure)	pc.2	pc.2		Diff. +.04 (corr. for underexposure)
1				7.9	8.0	7.95 ±0	-1.07
2				8.4	8.6	8.50 ±1	-1.05
3				8.3	8.4	8.35 ±0	-0.97
4				8.1	8.8	8.75 ±0	-0.87
6				9.7	9.7	9.70 00	-1.16
7	B.			9.5			-1.17
8				n.s.			
9	t.f.			n.s.			
10	434.5 t.f.		5.23	n.s.			
11	49 7 very faint 5.1 5.1		5.10 ! 00	4.98 ?			
12	5.9 6.1	6.1	6.10 00	4.43			
13	6.1 6.3	6.2	6.25 10	4.52			
15	6.6 6.8	7.1	6.95 21	4.26			
16		7.5		4.06			
17		8.0		3.94			
18		8.6	8.70 ±1 8.8	3.69			
19		9.1	9.10 00 9.1	3.68			
20		9.1	9.15 ±0 9.2	3.76			
21		9.5	9.50 00 9.5	4.02			
22		9.8	9.80 00 9.8	4.12			
24		t.	t.				
f		8.1		3.84			
e		9.1		4.03			

All Images are elongated. Sequence not in centre.

12:10

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